

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21775	52143	A	21903	843	2055	HHRMAQNLSRYGNDKRPEESQ FRVVNVKPVTLYDVAEYAGVS YQTVSRVVNQASHVSAKTREK VEAAMAELNYIPNRVAQQLAG KQSLIGVATSSLALHAPSQIV AAIKSRADQLGASVVVSMVFR SGLVACHTAPHNLL/ARKRGPA GLIINYPLDD\QDAIAVEA\ACT NVPALFLDVSDQTP\NSIIFSHE DGTRLGVEHL\VALGH\QQIAL LAGPLSSVS\ARLRAG\WHNFL TGN\QIQPIA\ER\EGDWSAMSGF QQT\QLMLNEGIVPHWRLLVAQ RRMALG\AMRRHYEPESGLRV GA\DILRVGGNTTIPED\SSCYIP AL*PPIKQDFRLLGA/QTSVDR\L LQLSQGQAVKGN\QLLPVSL\V KRKTTL\APNTQTA\SPRALPRF H*MQLA\RQVSRLESGQ
21776	52144	A	21904	1	1201	
21777	52145	A	21905	1	492	
21778	52146	A	21906	646	934	
21779	52147	A	21907	1	1713	MLCTKWDLGLEKNAGKNKN AYKWYGW PANAPDEPHIEQLV GECRVMRQLKRLISRIAPSSV MVVGESGTAIPVVSHAEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFDFWENFYNGRHNKPGSEQ RYTFKNTKPYLSWVDTGFSLYL HAYGTYGSANRVNFLDDMFL AGFGFQF*PAGGW/WGSNPFFA K\RYTRSKPYYTGDNGYVAG WVAGYNFMLGSEKFTLTNWN EYEFDRDATYAADFLPLYDVD CQDNGNLEYDTYSQPEWKHNL FDHYLA VLYRFKDESGKEQFSG AVVKTREATPGKEIEAITRRML DFSPRLKKLADCPSPRPVFEALC ICSMLDALLLLCPLDYHASCDN YSYALLDPQGFPLPHRRLWGPY IDVDVPMLHLIQHAWAQDALL SCLYSDLLYMSSFYPAGTLTR LMGVTSYNHKNTLLTYCITLMS TIRFAYDGDEEIAMKYTDFLKG ELSMNIRPLHDRVIVKRKEVET KSAGGIVLTGSASAKSTRGEVL AVGNRILENGEVKPLDVKIGD IVFFNDGYRGEI
21780	52148	A	21908	2060	2404	
21781	52149	B	21909	1	1377	

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21782	52150	A	21910	52	1719	IGQVVDVDTCTFTRIHLVFNFD NDTGSIHVLNDTTTFSYRSYTG VNGNSTFHTSTNQRLISAQSRN GLTLHVRTHQCTVGVVVFQERD QGRTDGYHLLGGYVHVNLV AAEQAGFAFATASYQVFYEVA FFIQVGVRLGDNVVAFFDSRQV VNFVSYNTVGHFTIRSLKEAVF VSLCVHGRVDQTDVTRFRGF DWTDATVVSrvyvsNFEACTF TGQTAWAECGDTTFVRNLRQR VVLVHKLRQLAGTEELFHCCG SQDPQQPWGWNLRVNPLAQT GHAHEAQRKQWHKGNEEADD PEPERAFTPGFVQFETERFRPPV GHPCEAAEDHAADDHVMEVR NQEQAVMQNEVRARYGQQHA SHPAHREGDDKTDGPQHRRME HDAALIHGEQPVEDLHPGRDG DNHCGDTKEGVYVRARTHRKE VVQPNDERQHGD TDGCPYQRG ITKQFTREGCRNFGEHTENRQ DQDVNFRVAPGPNQVDVHHH VATHIVGKEMGAQIAIQGQHAT YRQNGKDL*SNRGVASGNPQC RHRAHRRATDCQTVIKQPVFFG

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21783	52151	A	21911	608	2508	YITATSCSGWMIRWCAKAAKCA/CSRGPGGKLRRHKGAETLCGNTRVLIAPQLPAVIAATLSGSRSTGRREGPTPTTVMIQDHTGSSSTDECSANVQRIFNRIMLCISVSRPRTIPFHDLAQSFRQFRNVKCLWCAFEQAQLMRIQPAIVMVKTIHRERLNSGQFRCHQEARNIPPHRQSRFLASRGLLAELMFMLYGIGELPEIVTLPKEIRGNVDNSRHAVFLANSGMPELRFIRTHGSRFTSQDCTLFNWLARIITPVLQSWLNDEEQQVALRLLEKDRDHRVRLVDITNAVLSHLDLDDLIADVAREIHFFGLASVSMVLGDHRKNEKFSLWCSDSLASHCACLPRCMPGESVLLTQTLQTRQPTLTHRADDLFLWQRDPLLLLLASNGCESALLIPLTFGNHTPGALLAHTSSTLFSEENCQLLQHIADRIAAVGNADAWRSMTDLQESLQQENHQLSEQLLSNLGIGDIYQSQAMEDLLQQVDIVAKSDSTVLICGETGTGKEVIARAIHQLSPRDKPLVKINCAAIPASLLESEFGHDKGFTGAINTHRGRFEIADGGTLFLDEIGDLPLELQPKLLRVLQEREIERLGGSR TIPVNVRIAATNRDLWQMVEDRGVI
21784	52152	A	21912	147	2699	MTIRAICSCCPLPDA*NVLM*YIMSTFQASGNGQQLQIARIVIQNITG
21785	52153	A	21913	432	1016	FCPSSCLAATAPAA*AGWSFLPSPA EQNRWRFPLSRFCQIPAPL/LGTLIISLSVFCSILAASAAEIPGSVDGIYNKSPSLI\WVKIPRQLY*AAREPSAPKAPPPAAWFSASAVLSATA\MINTNQKAIERVTAFR RN FATDPVAHQDRDHYDRQQR RTRHRIRFGERQRAKQTPFLPFQGEDRDKRQRDNQQTDK

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21786	52154	A	21914	1	1146	MTTSMMLNAKLLPSAPSAVVV VRVVVVVGNAPTSRKVGPEEK DWSMASSGTTSTRKRFTGAEFI VHFLEQ/PGH*DCDRHSG/S/CSI LPVYDALSQSTQIRHILARHEQ GAGFIAQGMARTDGKPAVCMAC CSGPGATNLVTAIADARLDSIPL ICITGQVPASMIGTDAFQEVDT YGISIPITKHNYLVRHIEELPQV MSDAFRIAQSGRPGPVWIDIPK DEQTAVFEIETQPAMAEKAAAP AFSEESIRDAAAMINAARKPVL YLGGGVINANARVRELAEKAQ LPTMTLMALGMLPKAHPLSL GMLGMHGVIRSTNYILQEADLLI VLELAGVQTVDTVDVNASKPAS ATRHIAFQVTIGCDRLADSV VFPHSVDDIGKVAA
21787	52155	A	21915	1001	1037	MVGMASSCMPAFTRLELYSVIS QSTQIRH/ILARHEQGAGFIAQG MA/RTDGKPAVCMACSGPG/AT NLVTAIADARLDSIP/LICITGQV PASMIGTDA/FQEVDTYGI/STM TLMALGMLPKAH/ALSLGMLG MHGVRSTNYFCQEADLSIVLG ALFDAGQIGKTSSFCPNAKI/IH VDIDRAE/REFPCPIPKACDLLS H/YGLINAVAACVDDNAIITTD VGQHQMWTAQAYPLNRPRQW LTSGGLGTMGFGLPAAIGAALA NPDRKVLCSFGDGLMMNIQ* MIIAIPITGVKIFNWCSPCIRPHR VPFCDAVAIGFIVTFSDVIQIASI YEIPCRDPTGVASTEYSSSSCR RRNTTLCDPGSPAQRQSPQAGQ NPSCPAHRRSATGVGD
21788	52156	A	21916	135	449	
21789	52157	A	21917	5	214	
21790	52158	A	21918	2	337	IGIAKHAQQLLLNVMQTRAVG AEVQTVSATGSAVRQALANNL QPFAIFFQINA/W**RAGRYPDD HGISPETALYGWHTSATGTAG MR*SVRPWLQSGQGCSGWRRQ QPRWSP
21791	52159	A	21919	1	774	

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21792	52160	A	21920	2	914	RHIRTPAHLERFIVDIALNVADG HRAKLIVQSAGTFAQTVLRA SANFRQGVGLVRQFRFKNTPL VGELQPV RDVVVYRAFPLAVW VAARQAAVSLRFLA FGKRLV NFNKLN FADLQRFLWRINAAQ LSCATTT/ADPAVLLHHWTSV* PAQI*WR\S*PVRQNLFTALRAG MLHMLGDKTTQMLFMDRQSV NA*DLDQFRVNAFAEIAAFIEN VSETAGHARTEVNAGFTQNAD DTTRHIFTTVVANAFYHGDSTG VTHAETFTRAACGIQTTTGRAI QAGVADNACFMAAEGGTNRR TNGD
21793	52161	A	21921	204	371	PGPAGAQSAALYRWSPGQAVS RADWFRFADC*IYPENRRNAGS AYRPRLSPAYCG
21794	52162	A	21922	2664	2970	TPDTAPAGCRSRAPDGP SLPRQ MPRRRG*FHTARYCRT PRAITA *R*TE*STCPARTGEWYAHARY APGTSRQTATMPPTMPRRRASS YSSTQPDGRRQNC
21795	52163	A	21923	318	459	
21796	52164	A	21924	577	888	TNSSNQQLAEGNRERLIGRNTA GPERITAGRR*LFSCQNRPCGW RFNKCHIGMPVVVIWRIIVMGI QHDDLVPFGMRVNRVNMQF AKTLGQRALLRRNSLIA
21797	52165	A	21925	3	711	AGAHSGPSHPALATTAARQSV AGNRSGISGFSGHSRNPTRMSA RCL*SSVALERLMRRLNGGEIQI SDVTTTTPS\LSPQVYCSAMSRN LCTRATPRWQSAGHPYCRWTA SYCAIYSDRSIRGN YSTRQSFAS GRRV\PTGSWQKTESEKDCSTC CANWANDRTPLPTSTSSANCST NVQTSVVPVLRRIWLTSLRV VLTVSLKSVCARGTSPQASCWF VKRAASSATSPVVITTC
21798	52166	A	21926	244	535	TRYPDDHGISPETALYGWHTSA TG TAGMR*SVRPWLQSGQGCS GWRRQQPRWSP**RSC**CSVY PATL*FCRLYNQTS GPGHSDLP AFPDSRRKI

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21799	52167	A	21927	869	2923	PKKDLKIATSAMMEAAYSV*SR TLFW/SPVRDSQVTDQTQWQGL MSQLRLQGFDLVLQWTRYGD AFTQPEQRTLLFKRAAAAQQA GLKLIVGLNADPEFFMHQKQSS AALESYLNRLAADLQQARLW SAAPGITPDGWYISAEIDDLNW RSEARQPLLTWLNNAQRLISD VSAKPVYISSFFAGNMSPDGYR QLLEHVKATGVNVWVQDGS VDKLTAEQRERYLQASADCHD GAAPHGK\VFKLIIA*RARR
21800	52168	B	21928	72	690	
21801	52169	A	21929	1	2241	
21802	52170	A	21930	1607	1893	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPAFFQLLIK HVD/SMCHQRLSGSRKSKHNVI AVVFSYCSVSVFSASCPHQVL LQTQYF
21803	52171	A	21931	1	3960	
21804	52172	A	21932	1	1281	
21805	52173	A	21933	1	1491	
21806	52174	A	21934	1	1254	
21807	52175	A	21935	1	723	
21808	52176	A	21936	740	880	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPGFFPTVN
21809	52177	A	21937	1	1191	
21810	52178	A	21938	1033	1248	
21811	52179	A	21939	1	1425	
21812	52180	A	21940	1	2784	
21813	52181	A	21941	676	1467	
21814	52182	B	21942	1	3288	

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21815	52183	A	21943	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSA YERGQRYASRLQN EFAGNISALADAECDNLK TCHT SHGSVMAETA VINHKKRKNSP RIVQSNDL TEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVV FYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIGLQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIERYQLPQS YQRMPDFRRRFLQGFCRFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPHMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADVLIVPTPAELFDYTSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMLVK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK
21816	52184	A	21944	1790	2947	TDFSVRCKGCRTGPFRLIFQDR IVGVELIAVF*NTGPRFSSCRLS WRRPFDKTCRMRWHQRLSGFP QEONDGKQQPILC
21817	52185	A	21945	1	888	
21818	52186	A	21946	252	1863	RKNPFILH*LFR*TLRQTKPDDS AGKGVKI**HTQNQRSGRSQND F*RRLW
21819	52187	B	21947	1	1794	

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21820	52188	A	21948	138	341	PNPRGLLNTITPEHFKSKLHIPT TYRQSNGITASHYSYARN*RVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGLLELL KAAASLVFLEQHKPYEEIGTSF GSVLVSVVGEGPFVEEDLRKSF PGRWDKKHKMFDAIEEPKKDS DKFDANDPILKDQTQEWGSA TFTSDGKIRLFYTDYSGKHYGK QSLTTAQVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYLVEANTGTENGYYQGE SLFNKAYYGGGTNFFRKESQKL QSAKKRDAELANGALGIIELK YDYTLKKVMKAADHFQTPVTD EIERANVFKMNG
21821	52189	A	21949	761	916	NKRIFPSHVKVAEPDHSCV*SFR IGSLASNLSSLKTRPAFFQLSIE LSPT
21822	52190	A	21950	1	1437	
21823	52191	B	21951	50	1690	
21824	52192	B	21952	1	1032	
21825	52193	B	21953	1	1974	
21826	52194	A	21954	878	1202	SVYNKRIFPSDVKVAEPDHSCV *SFRIGSLASNLSSLKTRPAFFQ LSIE\FRRPFDKTCRLMCHQRLS GFPHEQTQRDSTCIQLLFRQRF AAASCPHQVLLQTQYF
21827	52195	B	21955	7	1702	
21828	52196	A	21956	527	665	NKRIFPSDVKVAEPDHSCV*SFR IGSLAFNLSLALKTPARVFSTVD
21829	52197	A	21957	469	687	
21830	52198	A	21958	2	1018	EGSDSRAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNISDSWKNAGRVFKDSD KFDANDPILKDQTQEWGSGATF TSDGKIRLFYTDYSGKHYGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDRTKYQNGQQFIDEG NIPPATPYAERPYYFEDKGLKY LGKPTVEPSVCGGRLESPWQTA GVSPTVQKLKSLKFDVRGQEE VWEKDEAALANWTVPNHTCD NLKTCHTLHGSMVMAETA VFN P KKLKNSPRIVQSNHLI
21831	52199	B	21959	7	1113	
21832	52200	B	21960	1	1188	

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21833	52201	B	21961	1	1414	
21834	52202	B	21962	1	1515	
21835	52203	A	21963	1652	1916	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQND F*RR
21836	52204	A	21964	1	1353	
21837	52205	A	21965	1	1507	MAAQDAMVTRTSSQTDCKEPG LKWAGVVLMLLCWL MFQVL WEACQKKTGEHKTMLQMILCN KSYQQLRLVITPMYMLGDWL SKNCGQNSTPSLGDNPPERQTQ EWSGSATFTSDGKIRLFYTDYS GKHYGKQSLTTAQVNVSKSDD TLKINGVEDHKTIFDGDGKTYQ NVQQFIDEGNYTSGDNHTLRDP HYVEDKGHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQQSAKKRDAELANG ALGIELNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWYL FTDSRGSKMTIDDLHIHAEDTL LPFYLGEKDDVTYAIKPTCWPG LDIIPSCALHRIETELMGKFDE GKLPTDPHMLRLAIETVAH*P AEK*HQNHSSPF*PRFFAVSLRT GSSYHCILSSH
21838	52206	A	21966	729	843	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLLINM
21839	52207	B	21967	1	1416	
21840	52208	A	21968	1	1794	
21841	52209	B	21969	1	1171	
21842	52210	A	21970	1108	1250	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPGGASRVP K
21843	52211	A	21971	1	2535	
21844	52212	A	21972	743	898	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPAFFQLSIE LSAT
21845	52213	B	21973	1	1605	
21846	52214	B	21974	1	1873	
21847	52215	B	21975	1	2946	
21848	52216	A	21976	1419	1498	
21849	52217	A	21977	1	2314	
21850	52218	A	21978	1	1215	

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21851	52219	A	21979	1	1851	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRERHTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETA VINHKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEH GICEIHVA\KYVEIFGLPFAEAS KDIRQALKSFAGKEVVFYRPEE DAGDEKGYESFPWFIKRAPSPS KGLYSVHINPYLIPFFIGLQNRL TQFRLSETKEIPNPYAM/RLYTN TLCQYRKPDGSGIVSLKIDWIE RYQLPQSYQRVWTPGINCPEPC PGVWTPGINCPGAWGIHGP HGS AENTGPLHPGQTS AQLTSLLP SLRSARELELAQLSPRRKQNR LQNGVTPSLRVPWPKASN VQQ FIDEGNYTSGDNHTLRDPHYVE DKGHKYL VFEANTGTENGYQG EESLFNKAYYGGGTNFRKESQ KLQQS AKKRDAELANGALGIIE LNNDYTLKKVMKPLITSNTVTD EIERANVFKMNGKWYLF TDSR
21852	52220	A	21980	3197	5376	
21853	52221	A	21981	543	5690	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQND F*RRWSRSY
21854	52222	A	21982	2241	2614	ETLTTLKTKAINTLYSKPTREQ KTDTKAKNLYLTKRTTAAART SSVKKAI SFNRALKNAMLS*RT APSVS*IRHRV*NL TMRSSSSA PSPWML*A*AWLCRYCRASCGI SSIPTASPV TMACC
21855	52223	A	21983	31	892	
21856	52224	A	21984	548	855	
21857	52225	B	21985	1	1825	

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21858	52226	A	21986	1	3146	MEWGKFKRLVLP SQGKSKPEQ RCQYRHTVGDQATLPLRSRVE KRNGEAEGRIRKLWDVALLC CVQEVINGERKPLRALTEVKSG FRLREDSKFDANDPILKDQTQ EWSGSATFTSDGKIRLFYTDYS GKHYGKQSLTTAQNQQFIDE GNYTSGDNHTLRDPHYVEDKG HKYLVFEANTGTENGYQGEES LFNKAYYGGGTNFFRKESQKL QQSAKKRDAELANGALGHIELN NDYTLKKVMKPLITSNTCDN
21859	52227	A	21987	1	3107	MNEMKREEKFREKRERNEQI LQEIRDYVKRSNLHLIGVSKSD GENGTELENTLQDIIQENFPNLA RQANIQEIQRMLQRYSSRRTT PRHIIVRFTKVEMKEKMLRAAR EKGRVTHKGKPIRLTADLSAET LQATKEWRPIFNILKEKNFQPRI SYPAKLSFISEGETKYFTDKQM LRDFVTTTRPALKELLKEALNME RNNRLVKSLAWASQNGFRSPA LLPLSLMLCAPLQEADGTNLG WLAHCGLLCTGDH
21860	52228	B	21988	239	2825	
21861	52229	A	21989	7533	11119	
21862	52230	A	21990	1	3718	MEVIPEGYRLSELKKCSKWIVV MVARLYEYTKNQIIHLKWVN HMLGCLDRNDPLRDVDEAAV PVLICISADDPVCGPPDHTLTTE LFHSNPYFLLLSRHGGHCGFL RQEPLPAWSHEVILESFRALTEF FRTEERIKGLSRHRASFLGGRRR GGALQRREVSSSNLEEIFNWK RSYTRLMAAAAGAAAAPGSRE PQDRPECGAGHPGPRYYRHPER WLLRPEAFLGPLRTRAPSAEDS QRERPAARSGPEM
21863	52231	A	21991	1	697	
21864	52232	A	21992	1	978	

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21865	52233	A	21993	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGGQRYASRLQN EFAGNISALADAECNLTCHT SHGSVMAETAVINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIGLQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPDFRRRFLQGFCRFRNI HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPHMLRLAIE TVAHDYDVVIDSAPNLGIGTIN VVCAADVLIPTPAELFDY TSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK

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21866	52234	A	21994	1184	2229	RSSVATVALLHAVINHK/KRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIIERY QLPQSYQRMPDFRRRFLQVCV NEINSRTPMRLSYIEKKKGRQT THIFFDMLRDLLKNVDLKGFEF DVRILLTKYSNSNGSQSPWMEE QIRDAWGSMLKNVRETDEV GKDTSLSTPAAPMVDSLIARVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGAVSQ GGESFIYMLPTGAAAFLEMP PERRNLKKQCGYSGFAACGYQ SQERKNSPRIVQSNDLTEAAYS LSRDQKRMLYLFVDQIRKSDGT LQEHGICEIHVAKYAEIFGLT AEASKDIRQALKSFAGKEVVFY RPEEDAGDEKGYESFPWFIKRA HSPSRGLYSVHINPYLIPFFIGLQ NRFTQFRLSETKEITNPYAMRL YESLCQYRKPDGSGIVSLKIDWI IERYQLPQSYQRMPDFRRRFLQ DHNSSPEREQNWMENEFDELT EVGFRRWVITNSSELKEHVLQ CKEAKNLDKRLQELLTRISNLE NIDDLMEKNTAQELHETYTSI
21867	52235	A	21995	82	325	
21868	52236	B	21996	220	1173	
21869	52237	A	21997	1	1599	
21870	52238	A	21998	188	421	
21871	52239	A	21999	1	596	MGMTDMGKSKKKSQGPPSFPP GGAPPPAIGAPAGRERPPGTGD PFNQRPCDNLKTCHTSHGSVM AETA VINHKKRKN SPRIVQSN LTEAAYSLSRDQKRMLYLFVD QIRKSDGTLQEHDGICEIHVAK YAEIFGLTSAEASKDIRQALKSF AGKEVVFYRPGEDAGHEKGYE SFPW/FIKRSPE*RRGKFPTQM GQD
21872	52240	A	22000	1	1527	
21873	52241	A	22001	2	870	

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21874	52242	A	22002	1	4304	MAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIIERY QLPQSYQRMPDFRRRFLQCINA GHEMTKAIAIAQFNDDSPARK ITRRWRIGEADLVGVSSQAIR DAEKAGRLPHPD
21875	52243	A	22003	740	1159	SLPNLDNSAICSSSSSPTTR*SL SVSAAALRRRLPSAISMTPTDL RPNAGVC*PVSKEGMRSSSAS SVSSWSRSLPDHTREVFTLSP RSTSRVNFTSRPHTGKVMALPR AITPIRAINESTIETAGEDNEVSS TG
21876	52244	A	22004	664	1844	SGNLKACHPSHGSVMAETA\VI NHKKRKNSPR\IEQ*KDGYQQA YLSLRDQKRMLYLFVDQIRKSD GTLQEHDA\G\I\COIHGAQYR*QIS D*PFAEASKDIRQALKSFAGKE VVFYRPEEDAGDEKGYESFPW FIKRAHSPSRGLFSGHIPPYLIPF FIGVKNRLTQ\RLFETKEIPHPS AL\RYYESLGQDRK\PDGSSIGS LK\IDWIIERYQLPQSYQRMPDF RRRFLQHFLAHAGCPKGTQNFT FRMKFIIFSIIKKVLPVDTILAH PVIHTCHLRESFGSVSPSSPKSN RLPCPEVILFHYGESWNLLRAD QRLIFAKSWPRASRYQQGHQD LFILRSDLPSQVFIRDKLMERRN RRTGRTEKARIWGSDDGQNGQE PGYVEAGCPPLLLTV
21877	52245	A	22005	3	272	
21878	52246	A	22006	1	528	
21879	52247	A	22007	461	831	LLNLATWRYLGTLTRGTASIVA VAGILAALRITNNKLSNHVVFV QGAGEAAMGIAHLLVMALRRK K\GTERTTATRKIWMVDSK\GLI CQEGSHLN/HHEKEMFAQDH PEVNSLEEVVRLVKPTAM

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21880	52248	A	22008	3	1894	EGEDRGLPRTMGAALGTGTRL APWPGRACGALPRWPTAPAQ GCHSKPGPARPVPLKKRGYDV TRNPHLNKGMAFTLEERLQLGI HGLIPPCFLSQDVQLLRIMRY ERQQSDLDKYIILMTLQDRNEK LFYRVLTSDVEKFMPIVYTPTV GLACQHYGLTFRPRGLFITIHD KGHLATMLNSWPEDNIKAVVV TDGERILGLDGLGCYGMGIPVG KLALYTACGGVNPQQCLPVLL DVGTTNEELLRDPL\YIGLKHQ RVHGKAYDDLLDEFMQAVTD KFGINC\LI\QFEDFANANAFRL NKYRNKYCMFNDDIQGTASVA VAGILAALRITNNKLSNHVFVF QGAGEAAMG\IAHLLVMALE\K EGVPKA\EATRKIW\MVDF\KGL IVKGRSHLNHEKEMFAQD\HPE SNSLDEVVRLVKPTAIIGVAAIA EA\FTEQILRNMAF\RRAPIIFA LSNPPRKAECTA\EKCYRVTEG PRGFFASGKSFLRSVDL/ESMGK TFIPGGRGNN*RVPRGWQLG VHSPGGDPGHP\DEIFLPDSRA KLPQEVSEQL\SQGRLYP\PLS T\IRDVSLRIA\K\LDYAYKHNL V\SYYPEPKDKEAFCKIPGSYTP DYDSFYT/VDSYIWAQ GKAMN
21881	52249	A	22009	322	567	
21882	52250	C	22010	338	603	
21883	52251	A	22011	127	417	
21884	52252	A	22012	253	424	
21885	52253	A	22013	124	1235	YLCLLPKGQGDRLSRTSQWP QMSQSQACGGSEQIPGIDIQLN RKYHTTRKLSTTKRFPTACWR KKVGAFTKHEAMGFTGPKYS KWEDLRLRALRIVY*LCGRKLD FEGFFSK\CS\MPDTFNSWFLINP YFHVWMCLVRMKQEGRSGKY MCRIIVHFMWEDVQQRGRVM GVNPHYILKKNMILMTNHFYAA ILGYDEGILSDDHGLAAALWK NLL\NRKCEDPRHLELLVEYVR KQIQYLD\S\MNGEDLLLTGEVS WRPLVEKNPQSILKPHSPTYND RGTFDGLGPPHGPAGFRGTSR EEKCLVGPRTPARKWPELDDL NKHLSKYLAPICVEFPLSVPQESD LLGYRAWENPLALPGCPSSLRG

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21886	52254	A	22014	282	435	GGGASPAACSGSPDSS\HSATA GTGCRRPARPPAPPTPTPWRS RQQGSRAS
21887	52255	A	22015	3	399	IVALPFGHHHSQTSPLPNLLQTA ACLLHFLLLSGVETGRPGPWQ PRIRARGPPAPPGPAPPAKPRRR /GCRGPAREACWYGCRPARPP PAPPTPTHGAAGSREAERASEL/ C*GARPLRLGSAGTIMVSACVP
21888	52256	A	22016	279	872	KIPHLSLKLQGASSKIPTQNP HLSPGTKRDSSFQPWLSAFIIT GQCCSYIVRWGLWKPRLLVV KKYAALSAEMLLVKVEEPSA ACSGSPDSSSFCNCW*PAAAGR L/ASAAQRPPTPNAHKRSRQQG SRASERAS/CKGRGRYGLGALG GRGGRALGGSRWPPPLPGETLF SGCKHRRRRRGSDAAPGEEAG
21889	52257	A	22017	106	398	NAAPFSRHAAFQGFSAVCIFR LPAERALRLFPASCLVLPGGPS GVAP\HGWPLPTTAPPLLQGVW RVEVGEHEMAEIFSSAKKEAAG ALQRPCIPVW

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21890	52258	A	22018	1	1806	MRGNTAGGPGDEKPDSTHPPW EGTLQEAQEMKKVVRFMWTS GGPDPQHWRGSGLYGQLVAQ MLHIDVAQVYMDSWWPRCST LAWLRFIWTAGGPDAPHWLRS GLGGQLVAWMLHVGVAQVYV DSWWPSCSASMWLSFMEHKQ CLTLGYEVALFLQHFLSRAFL VWVPRKEKAQVLRQGLSLTFR ENPGVCVMSSYRPWLITAAAD MQPSKPGGTGSYCSYWSPTDN TPRLAAACTWNLGSSHGSAPG VRTFIEAGFSPFLAPKALALTL SDSDSRWGNPNVYAQPQP/PEP AWGNPNV*GQPQPRNRPG\PEP CVCSTPTAEPPWGNPNVSTPTA EPAWGNPNVYA/PTPTAEPPWG PNPV*GQPQP/REPAWGNPNVY GQPQPRNRPGS\PPQGNLYCSA ALGATDPSQSWHQCSQNLLPA DKGAKREAPW/PRPPSGEVDHQ VWHLHGWLPTTAPLLQGVW RVEQTPASHHRQPRPRQSSPST KAPPVITVNQGPASHHRQPRPR QSSPSTKAPPVITVNQGPASHH RQPRPRQSSPST/TGPASHHRQP RPRQSSPSTKAPPVITVNQGPAS HHRQPRPRQSSPSTKAPPVITVN QGPASHHRQPRPRQSSPSTKAP PVITVNQGPASHHRQPRPRQSSP STKAPPVITVNQGPASHHRQPR PRQSSTLTKAPPVITVNQSPASH

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21891	52259	A	22019	27	1367	RILAGPARAEAGSASDRSTGHL FPRGVGMDLCHPQPAELSSGET DELPRI*WHRKQLLEDIQKLKD EIADVFAQIDCFESAGDSRMAH KENELCIGRKKFNMDPRQGRW LWRARATGCGGCMGAPAWFL SGEGLNKTAIGTYLGER*ERVE P*RGRK*RCAGVYRCVDVQAL R*VVLGGQPGPQGWHSPSGWG CRDPYCLCNPGVFQSTGARRG VGPRAPGPLQHCQA*ISQTRPPF ERFVSMNRGINNGSDLPEDQLR VREAQPTQPGPGESRRDLSLDG WPFNPDREGWLLKLGERPTD TRRRTHTHARAGTHRCMHTTV SRVLLGLPLPPLPAQTSQ/PPT SRC/LRLQDPE/CWSHWEIS*TE RGESRVVEGKHESYRISATSAE ERDQWIESIR*GVPRSGDGFPSP SRRPCFFWVLRDSWRWHWGL VTLRVPSAAPGDP
21892	52260	A	22020	140	356	
21893	52261	A	22021	2	1147	APARGPAVASGPGSPGAAEPVQ NTETAAMTTHVTLEDALSND LLEELPLDQQPCIEPPSSIMYQ ANFDTNFEDRNAFVTGIARYIE QATVHSSMNEMLEEGHEYAV MLYTWRSRCSRAIPQVKCNEQP NRVEIYEKTVEVLEPEVTCLMK FMYFQRKAIERFCSEVKRLCHA ERRKDFVSEAYLLTLGKFINMF AVLDELKNMKCSVKNDHSAY KRAAQFLRKMA DPQSIQESQNL SMFLANHNRTQCLHQQLEVIP GYEELLADIVNICVDYYENKM YLTPSEKHMLLKVMGFGLYLM DGNVSNIYKLDAKKRINLSKID KFFK/HAAGGAPFRRHADRAGQ IH*DQCSL*REQVQVDVHPEQH QPPVQYL RADGSDPG

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21894	52262	A	22022	47	1581	ALVLMYLASSICMSPKRGTTCS CLERGSRCPTSEPPPPPEPPGGRS SRCRPGGLPGYGGGGEKMADDP SAADRNVEIWKIKKLIKSLAA RGNGTSMISLIIPPKDQISRVAK MLADEFGTASNIKSRVNRLSVL GAITSVQQRLLKLYNKVPPNGLV VYCGTIVTEEGKEKKVNIDFEP FKPINTSLYLCDNKFHTEALTA LLSDDRQVWDFIVIGG/SVGALF GHTPKGNTRGGPWHKFTVGIFP K\KHG*EGGQ\SALRFARLRME KRHNYVRKVAETA VQLFISGD KVNVA GLVLGASADFKTELSQ SDMFDQRLQSKVLKLVDISYG GENGFNQAIELSTEVL SNVKFIQ EKKLIGRYFDEISQ/DLTGKYCF GVEDTLKALEMGAVEN\LIVYE NL\DIMRYVLHCQGT\KEEKILY LTPEQEK\DKSPFH\DKETGQE\L ELIESMPLLEWFANNYKFGA\ TLEMFTDKSQKGS PV**KDLGG IGG\ILRYQSRFPGEWNTKKET MNFLTLMTR
21895	52263	A	22023	1	296	VEDERV CAGPAWERQAGQERP ARKVQGKAPEAEGKHGCLLDI LVCTYLA EKGLSGSCGLTEALV AFGEGSSLGRKNCRDPWGLSR QEPHWSDP/WSGPPERCKGKPQ RRRGSTDAFWTSWSART*PRRG SLAAVG*QRHWWPLGRAAV*E ERTAETPGAPSGRSLTGQTLGS LHV
21896	52264	A	22024	5	309	LPDADLFCPACGAAAGRARS GMRPVFAVSVARTPSPR/PPPAE PQFRLPCGSIGSPFFRDIDTIQK FPDMLSSFFRDIDTIQKFPDML VFNCCLLNQSR
21897	52265	A	22025	1	258	RGRSRIARSASGPRPALVRPPAR PPAP*TPRSWSCWSSC*PRSASA TGSPSA*ATDAHADSSKAMLPE PTSSISKFSTLQTPFRL
21898	52266	A	22026	119	692	PSSH SVRTATYSSLRQSAVSTRT STTTTLAFMARAGGRAGGRAR VGGRTPSGQCGCPACGAAAGR ARSAGMRPVFAVSVARTPSPR/ PPPAEPQFRRPQR\GAPAPSGG GASLPAPRALASSIPAQLMKPG RAKGSAGNLHPG\EGRPGARRS DPAGAARSLACP*IWPKQTPSP LASSSSFFLSETPECAH

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21899	52267	A	22027	2	246	
21900	52268	A	22028	1	927	
21901	52269	A	22029	251	1077	VTMGKVLAVSSLPAGPPPPVP ALVGLPPPPP*HPGFRLPPLGGG LGARTSVGRGLERTPGAATASA AGGAEDGACRCLPNPCTFEECH RKCKEL*MEGVKFTENKAL/SS KMAIQTQQSKFVKWQVDGEYR GSDFTVDVTLWNPVLMGSGI LVAHYLKSITPCLALGSELVYH RRPGEEGTVM SVAGKYTLNNW LATVDVEFEASTRMQDTNVSF GYQLDLPKANLLFKGSVDSNW IVGATLEKKLPPLPLTLALGAFL NHRKNKLRSGFGLTIS
21902	52270	A	22030	1	1171	GGSGFGCAWRTGWERSPGRE QAPPPATMGNVLAASSPPAGPP PPPAPALVGLPPPPSPPGFTLPP LGGSLGAGTSTSRSSERTPGAA TASASGAAEDGACGCLPNPGTF EECHRKCKELFPIQMEGVKLT NKGLSNHFQVNHTVALSTIGES NYHFGVTYVGTKQLSPTEAFPV LVGDMDNSGSLNAQVIHQLGP GLRSKMAIQTQQSKFVNWQVD GEYRGSDFTAAVTLGNPDVLV GSGILVAHYLQSITPCLALGGEL VYHRRPGEEGTVM SLAGKYTL NNWLATVTLGQAGMHATYYH KASDQLQVGVEFEASTRMQDT SVSFGYQLDLPKANLLFKGSVD SNWIVGATLEKKLPPLPLTLAL GAFLNHRKNKFQCGFGLTIG
21903	52271	A	22031	14	434	CYCQGILSPPCPPFLLGSAQTS AICSWVRGVPAESSTSSFPKAP* VALESRGEAPTLHLPVTSRFLQ CVSSEQECVPWKP/HSSPRPRFL DISPSPTCVRL*APGPVPFDPHQ KTWRSPLGTRAQGVGPRDRDS CRIVPG

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21904	52272	A	22032	989	1859	VYGDSRWSLALSPRLECSGAVIS AH*NLCLPGSSDSPASRITGISG ARHHAQLI/L/YVFLVEMRFHH VGQAGLKLLTSGNP/HHLGLPK CWDYSRKPPRPPII\FSFFFL RWSLALVAQAGMQWDDLSSL QPLPPGFK*FSCLSLLRSWDYG CPPPRLANFVCVCVCLV/VDG GFTMLARLGLELLTSGDLPPFG LPKCLGFTGMSHCARPIFFFE MESCFATQAGVQWCDLSSLQP LPPRFK*FSCLSLLSSWDYRHM PPCLANF/CFGIFSRDRVSSCWP GRSQTPDLK
21905	52273	A	22033	157	376	SHQDFMRTAANLLQTGWCTGS NTGAGARWGLCRASLSRCRCA APSAPCSGSRCS*RSWKGTHPS LPPRCGRS
21906	52274	A	22034	298	399	
21907	52275	A	22035	1	185	
21908	52276	A	22036	311	516	WKAERRTRHLLQTGWCTGSNT GAGARWGLCRASLSRCRCAAP SAPRSGSRCS*RLWKGTHPSLPP RCR
21909	52277	A	22037	1	1487	MMGHSSAIPLTATPGELKGQSP TKMPDPELGCGAKSQGCSRN ARHQKARSMPLQDQHLALAIL LELAVQRGTLSQMLSAILLLLQ LWDSRAQETDNERSAQGTSTL LLSLLQTFQSIHCSKDTTPSEGN MHLLSGPLSPSESFLRESFFTQ NCRNNEEVTICKADLENHNK DGGFWIVIDEKVYDIKDFQTS LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAFVGOYLEVR LYALSDAEDGRGHPLMASVIHL LWRLQTSQIHYSYNEEKDEDH CSSQWAHLPANRDCSHRWALG DHSQAFLQAIADNNIQDHNVKT HQQGRSYKEVCTPVIERLRFL SNELRPAVGNDLSIIEFKLLSSL PRWRRIAQKHIRERRKKRIPKKP ESTADEEKIGNEESDLEEACILP HSPINVDKRPIAIKSPKTITSEN LG/REPGEHPASPLPPDDAQHA HPAAQRKQPRPPAQFRHAGPHS DGTAPDWPQL

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21910	52278	A	22038	263	375	AGPRRMRRISAWAVSTPLTDSP SPGHQPA/GEVAGAGSF**HPP/P PCPSRYCPQMTPPPPPPAPPAL PPPPPPAPASPLPPAPSPPPHAP PQALPPPPALPPPPASPLLPAL LSPPLPAPP/PPSAPPASPPAPPP PPAPPPSPPPAPPPSAPSSAPLPP APASPP\SPAPPPAPPPAPHPPSP PAPPCPLPRPGPSVPQEKVHQ V*IPVP\PAGEGGPAPGRIWPQG WRRAGKPPTWEEALAAFPWT ALPPASAVPAQPPRAH*VAPAL *WALHRRSDSDSDSSNLSPRIPG TGGQRRQPR*DS*APACSEVAG AGSF
21911	52279	A	22039	1	2001	
21912	52280	A	22040	1846	7725	PEPFCHRAAHWSNQYCPFQFQ DTDSPRQTLTVLIKDNGEPSLST TATLTVSVTEDSPEARAEFPGS APREQKKNLTFYLLSLILASV GFVVTAFGVHFKVYKWKQSRD LYRAPVSSLYRTPGPSLHADAV RGGLMSPHLYHQVYLTTDSRR SDPLLKPGAASPLASRQNTLR SCDPVFYRQVLGAESAPPGQIR YPVPEESQEGTFVGNVAQDFLL DTDSL SARRLQVAGEVNQRHF RVDLDSGALLIKNP
21913	52281	A	22041	108	340	PQPSQVMSFHGDSGSCRRWAT AGT*ATSPPCSSSIFLRMHSGH WCSCWPVRGTPCRDFTAQMAG PSRGSKTNRSMW
21914	52282	A	22042	275	752	EKTHKTCRCGRGCGKRGTL*H CWECNLLQPLWKMVWKWL KELKVELLCDLAVPL/LGINPEE KKSLEYKDTCT/R/LFMAAQLAI AKKWNQPKCPSINKWLQKLW YIYMMEYSAIKRN\LTAFAT WMRLETIILSQGDPLESTCSRSQ ANRQEITSVPKA
21915	52283	A	22043	25	202	DAEAWAMELADVGA*ASSQG APQPEEPAASLGVNEKGGAGG RSGRRPLGRDRPRPTRL

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21916	52284	A	22044	1	2290	MEKLGVEPEEEGGGDDEEDAE AWAMELADVGAASSQGAPQ PEEPAASLGVNEKGVHDQVLPT PNASSRVIVHVDLDCFYAQVE MISNPELKDKPLGVQQKYL VV TCNYEARLGVKKLMNVRDA KEKCPQLVLNGEDLTRYREM SYKVTELEEFSPVVERLG FDE NFVDLTEMVEKRLQQLQSDEL SAVTVSGHVYNNQ SINLLDVLH IRLLVGSQIAAEMREAMYNQL GLTGCAGVASNKLLAKLVSGV FKPNQQT VLLPESCQH LIHSLN HIKEIPGIGYKTAKCLEALGINS VRDLQTFSPKILEKELGISVAQR IQKLSFGEDNSPVILSGPPQSFSE EDSFKKCSSEVEAKNKIEELLAS LLNRVCQDGRKPHTVRLIIRRY SSEKHYGRESRQCHIPSHVIQKL GTGNYDVMPPMVDILMKLFRN MVNVKMPFRLTLLSMCFCSLK AVNTATTRLIDYYLMPTISITSR SGKHSFKMKDTHMEDFPKDKE TNRDFLPSGRIESTRTRESPLDT TNFSKEKDINEFPLCSLPEGVDQ EVFKQLPVDIQEEILSGKSREKF QGKGSVSCPLHASRGVLSFFSK KQMQDIPINPRDHLSSSKQVSS VSPCEPGTSGFNSSSSSYMSSQK DYSYYLDNRLKDERISQGPKEP QGFHFT\NSNPA\VS AFHS\FPNL QSEQLFSRNHTTDSHKQTVAT
21917	52285	A	22045	2	141	
21918	52286	C	22046	278	489	
21919	52287	A	22047	130	426	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21920	52288	A	22048	357	1579	QRRPRPFPSQGISMTECFLPPTSS PSEHRRVEHGSLTRTPSSEEIS PTKFPGLYRTGEPSPPHDILHEP S*SNGLMDEKDHGKKKGNFKK KEKRTGYAAFQEDSSGDEAE KLMPRFEEAYGRTTETEKVQEF QRLLKELPEGNYLLISLFVVHM DHVITKELEAKMNIQNIYIVVSP TVQISNLVLYVFFTHVQELFGN VVLKQVTKTRRWSNVATMPTL PETQAGFKKEIRIQELLLNCLHQ DLQGGIKDLSEEERLWEEKIL TKQEELLGMEQFLRRQIASEKE EIECLRAETAIEIQSHQQQLSET EEYSSESESEDEEELQIILEDLQR QNEELEIKNNHLNQAIHEESEA VIEPRMQPWLLQLQPDRAKQQ AQEDEEPEWRGGAMQTPKNGI
21921	52289	A	22049	182	2212	VTEKTSSLPSQGISMTECFLPPT SSPSEHRR\VEHG/SAGLTPGPPA SEEIQLPKFPGLYRTGEPHPP P*HPSHEPSLM*CPDDEKDHGK KKGKFKKKEKRTGYAAFQED SSGDEAESPSKMKR\SKGIHVFK KPSFSKK\REKDFKIKEKPKEEK HKEEKHKEEKHKEKKSKDLTA ADVVKQWKEKKKKKKPIQEPE VPQIDVPNLKPIFGIPLADAVR TMMYDGIRLPAVFRECIDYVEK YGMKCEGIYRVSGIKSKVDELK AAVDREESTNLEDYEPNTVASL LKQYLRLDPENLLTKELMPRFE EACGRTTETEKVQEFQRLLKEL PECNYLLISWLIVHMDHVIAKE LETKMNIQNISIVLSPTVQISNR VLYVFFTHVQELFGNVVLKQV MKPLRWSNMATMPTLPETQAG IKKEIRRQEFLNCLHRDLQGGI KDLSKEERLWEVQRILTALKRK LREAKRQECETKIAQEIASLSKE DVSKEEMNENEEVINILLAQEN EILTEQEELLAMEQFLRRQIASE KEEIERLRAEIAEIQSRQQHGRS ETEEYSSESESESEDEEELQIILE DLQRQNEELEIKNNHLNQAIHE EREAIIELRVQLRLLQMQRACA EQQAQEDEEPEWRGGAVQPPR DGVLEPKAAKEQPKAGKEPAK
21922	52290	B	22050	34	322	

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21923	52291	A	22051	137	1546	QMLGGRPPPRWLQLAKARALA RRRPPPSLHLTLPTALSLKS/RTP VPKSIPISETPNIPPVSVQPPASIG PPLGVPP/PEPSHGDDQPRPG\PL PIFMEQQIMQQIRPPFIRGPP\PM PPTPTAPCPTPCFPASGPRPVAP ETWAPLPAPCTGPCY\PPHPPPE/ PPPP/SPGNPPGLLPPPPPGAPLPS LPFPPVSMMPNGMPVPQMMN FGLPSLAPLVPPPTLLVPYPVIV PLPVPIPIPIPI\PSATPSPTGSP ATGRTSFRTPLATPRRRAASQA DTPCPPGTSPSRARSPRTRPPAA RARP*AWRPRPPSMAGARWWT *RGAPA\PPGPPGRGRPARLPRR AAGPAGRRHRPDGPPSPAAQR DPPRAA/PRTSRRSASRAPRSAG PAAAAGTATAARPPPATQARA PRRAPRRPRPATSS*TARAAPP/ SGAKSAEPPPEQPPPPPPAPPK KLLSPEEPAVMRARVQGGE
21924	52292	A	22052	762	2049	RSSFSGADLLACST/SGLGNM PY\DLLRGMEPTLGCSEFEDLAL A*PGGITQE\KINEMRVAPEQQ MI\ADIHFMAAGQDLWDIDAQ GATLLHIAGANGYLRAAELLLD HGVRVDVKDWDGWEPLHAAA FWGQMOMAELLVSHGAN\LNA RTSMDEMPIDLCEEEEFKVLLL ELK\HKHDVIMKSQLRHKSSLS RRTSHRQAS/SVGKVVRRTQPV GTGPNL\YRKEYE/GEEAILWQR SA\AEDQRTSTYNGDIRE\RTD QENKDPNPRLEK\PVLLSEFPTK IPRGELDMPVENGLRAPVSA YQ YALANGDVWK\VHEVPDYSMA YGNPGVADATPPWSSYKEQSP QTLLELKRQRAAAKLLSHPFLS THLGSSMARTGESSESSEKAPLI GGRTSPYSSNGTSVYYTVTSGD PLLKFKAPIEEMEEKVHGCCR
21925	52293	A	22053	2	306	SKEAFAIGLGGGSASGKTTVAR MIIEALDVPWVVLLSMDSFYK/ NAFDFDLIISTLKKLKQKSVK APIYDFTTLSRKMDWKTLYGA NVIIFEGIMAFADKTL
21926	52294	A	22054	2	379	

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21927	52295	A	22055	352	1227	GDVSPQLSPRQKSGPLCTSCCA WPVCSPHSDAQSPCEGGLWE KTPFLSVPHRFVPRAALASAHQ CHPLPRTLSVLKSTPQVRGMHT IIRDKETS RDEFIFYSKRLMRLLI EHALSFLPFQDCVVQTPQGQD\
						*RITGVSILRAGETMEPALRAVC KDVIRIGTILIQTNQLTGEPELHY LRLPKDISDDHVILMDCTVSTG AAAMMAVRVLLDHDVPEDKIF LLSLLMAEMGVH\SVAYAFPR VKKSSPRRWKAGQLTFFRIIP GIGNFGDRYFGTDAVPDGSDEE EVAYTG
21928	52296	A	22056	72	2746	FLVETGLHHVQGAGLKLTSN DPPASASQSTGITGMSHHAQPR QSSYVPPMSLPASAMPVEGVG GDALWAGHASGYLGGLQWA TSEYIPLCSSNAESLDRLLPPVG TGRSPRKRTRQCKSEPPLRTS KRTIYTAGRPPWYNEHGTQSKE AFAIVPVEQEKEAGQPQAAAA GWAPLGPIGASLPVPHRGSP PPAGLGGGSASGKTTVARMIE ALDVPWGGSSLSMDSFYKVL EQQQEQAAHNNCFDHPDAFD FDLIISTLKKLKHGKSVKVPYD FTTHSRKKDWKTLYGANVIFE GIMAFADKTLLEGPGPAPCTGP EDSIIRHIAAPSLHKASSRANYC VLSMGTDPKLATSPQPQCVGAS YPKQRCPEGVALARPTDQAAS VQGLVPVSPCLLASGHS LARC LHQLLDMKIFVDTDSIRLVRR LRRDISERGRDIEGVKQYNKFV KPSFDQYIQPTMRLADIVVPRG SGNTVGHHP*LLQHVHSQLEEV SGVPRPHGLAPSPSTHFAATTP SWPVHLIPLRSLPASS\SSQPAQ LCQQELGNCSSKLLGLGRGRIPL SLPKGRHAGGAALASAHQCHP LPRTLSVLKSTPQVRGMHTIIR DKETS RDEFIFYSKRLMRLLIEH ALSFLPFQDCVVQTPQGQDYA GKCYAGKQITGVSILRAGETME PALRAVC KDVIRIGTILIQTNQLT
21929	52297	A	22057	61	341	
21930	52298	A	22058	1	1086	
21931	52299	A	22059	1	498	
21932	52300	A	22060	104	3395	
21933	52301	A	22061	1	1653	

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21934	52302	A	22062	1	1717	
21935	52303	A	22063	172	13375	EDLFKCI MAHAASQLKKNRDL EINAE EEPKKRKHRSRDRK KKSDANASYLRAARAGHLEKA LDYIKNGVDINICNQNGLNALH LASKEGHVEVVSELLQREANV DAATKKGNTALHIASLAGQAE VVKVLVTNGANVNAQSQNGFT PLYMAAQENHLEVVKFLLDNG ASQSLATEDGFTPLAVALQQGH DQVVSLLLENDTKGKVRLPAL HIAARKDDTKAAALLLQNDNN ADVESKSGFTPLHIAAHYGNL
21936	52304	A	22064	1	360	
21937	52305	A	22065	1	2577	
21938	52306	B	22066	323	3154	
21939	52307	A	22067	93	791	IRMSYAEKPDEITKDEWMEKL NNLHVQRADMNRLIMNYLVTE GFKEAAEKFRMESGIEPSVDLE TLDERIKIREIDT*KGQIQEAI RL *FNSLHPEL/LWDTNRYLYFHF ASNSILIPS*FRQGKTRGRRWG VAQTQLADIRGEESRECLTEME RTLALLAFDSPEESPFGLLHT MQRQKVWSEVNQAVLDYENR ESTPKLAKLLKLLWAQNELD QKKVKYPKMTDLSKGGD
21940	52308	A	22068	171	426	
21941	52309	A	22069	5	655	LLQPSVQLPNGTANTSLSFAAV SAVSPPPCRTSTATTLPMPSPF FCVFSPSPSPSPSEFLSCIASVS RVHSLSSSSSGSSSTASSLNFSAI MGSSSATASWVLSTTSTPPCPS ALPSSPAQES*SLAASSAWLSE HPSFSSFTLSWASGAFCDEVSL FSGSKLSFLSSKGDCGIPFI* TSA CPSSLD FSPCFSSSTSKSSSYSEI GKSPQPI

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21942	52310	A	22070	87	1180	NQASLEVLPSVDSPPDSIPSLPP/ SDNPNRNFSAAPVSCLPSPLPVA ASWPSDPSSCSCSPSEVFRSRAP GVPTPASVVYVTVISSAAGTSSP LRANSSTTTFPAAAVFPTNSSC WCQVSSSATSEKEEALFAIVFSS AVSEPANTSLSSAAVSAVSPPPC RTSTATTLPPPMPSFFCVFPSPS MSPSPSEFLSCIASVSRVHLSLSS SSGSSSTASSLNFSAIMGSSSAT ASWVLSTTSTPPCPSALPSSPAQ ES*SLAASSSAWPVAGISPSGAC TFPAGSASGAAKAPSPSWRCPS FRALFSLLDSSSLCSVSLASL SLSPPPSFLRAVMFPATFKSRRC FKYGNHCLFSDLLWLEVCAL
21943	52311	A	22071	841	1052	IGEVLLDNVLKSVF*LGSVLPIT SLKLLP/SGSKRDPKMSHSH AG*VTTGAFPRCGRWRLQPAA PPPPS
21944	52312	A	22072	817	866	HANVPSPPTSWPKE*SWP*CSG **RTFQSVSFAGRRRGSWLKP PPATAWKSSSCHLPSGVRMAHF CRIPFGPRGRDFADFGTTIKQDF RLLGQTSVDRLLQLSQGQAVK GNQLLPVSLVKRKTTLAPNTQT ASPRALADSLMQLARQVSRLES GQ
21945	52313	A	22073	2	3238	TTFPAAAVFPTNSSCWCQVSSS ATSEKEEALFAIVFSSAVSEPAN TSLSSAAVSAVSPPPCSTATT LPPPMPSFFCVFPSPSPSPSEF LSCIASVSRVHLSLSSSSGSSSTA SSLNFSAIMGSSSATASWVLSTT STPPCPSALPSSPAQES*SLAASS SAWPVAGISPSGACTFPAGSAS GAAKAPSPSWRCPSFRALFSL DSSSLCSVSLASLSLSPPPSFL RAVMFSSDFSNPGVASNMGTT VSF
21946	52314	C	22074	88	4374	
21947	52315	A	22075	73	616	VKESLTQKSKRFQNKLINRRG WERPRSGASWTQRRALGGRGC VDRWLGII/WPHRIPGARLRGFP ALNPTPQTAPSPSPDPRPRPP/CP SDPGPRTEAQCSLAPPPAPSPRH LDPGPEPPTPLTQQGQKGTRAP RPRCPRSQK*ATSGPAVRRREA RGSASLRTRAPSRDSTHAGIQG NVALQP

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21948	52316	A	22076	1	421	GTVMGLPKYFISLSTKFPLSFS LSADELHIASFLWPRSKPFGVI QRSCASQLNALPEVLKNPGDPD KMLRFAESPRNLPAGVL/GDIW TDGKGSVSLQEYVHFPLIRPT PGS*ARASFLSCG*EEFRRHGLT FSSTRE
21949	52317	B	22077	211	2041	
21950	52318	A	22078	200	1525	IMASAHLATSAFCTRSSSSGRSG SCKRGSWDSEQUALIRAWTTLP SLHAADGSFAGGRGIPSKRWS WRAGQSSSLCLIMQTSSNCGNS FQLVSEGASWRGLPHCSAELQ DSLNFYSYHPSGLSLVRPSSPGN SPKEQPFSQVLRPEPPDPEKLPV PPAPPSKRHCRSLSPVDLSRW QPVWRPAPSKLWTPIKHRGSGG GGGPQVPHQSPPKRVSSLRFLT SSQCLFSMCPSSQTLQPSFLQPG PGPASSRPAASPQSGSWESDA ESLSPCPPQRRFSLSPSLGPQAS RFLPSARSSPASSPELPLAT*G/L SATFPESRSQPCDL DARKTGVK RRHEEDPRRLRPSLDFDKMNQ KPYSGLCLQETAREGSSISPP WFMACSPPLSASCSTGGSSQ VLSESEKEEEGAVRWGRQALS KRTL CQRDFGDL DLNLIEEN
21951	52319	A	22079	1	117	
21952	52320	A	22080	3	632	
21953	52321	A	22081	1	448	MQSETETVHLFIPALSVGAIIGK QGQHIKQLSRFAGASIKIAPAEA PDAKVRMVIITGPPEAQFKAQG RIYGKIKEENFVSPKEEVKLEA HIRVPSFAAGR VIGKGGKTAST *QNLCSGMKGKALKAKPSTYN CVGCGWSPRPRCSLN

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21954	52322	A	22082	233	2096	RREDEGNKTSWIHPSPWVVLIF RFFSLFFFKQPLFTMNKLYIGNL SENAAPS\DL\KSIFKDAKIPVSG PFLVKTGYAFVDCP\DESWA\LR AIKAFSGKIELHGKPIEVEHSVP KRQRIRKLQIRNIPPHLQWEVL DSLLVQYGVVESCEQVNTDSET AVVNVITYSSKDQARQALDK/L LDKLNGFQLENFTLKVAYIPDE MATQQNPFLQPRGRRGLGQRG S\SRQSGPGSVSKQKPCDSLRL LVPTQFVGAIIGKEGATIRNITK QTQSKIDVHRKENAGAAEKSIT IPSTPEGTSAACKSILEIMHKEA QDIKFTEEIPLKILAHNNFVGRLI GKEGRNLKKIEQDQTDKITISPL QELTLYNPERTITVKGNETCA KAEEMKIRESYENDIASMN LQAHLPGLNLNALGLFPPTSG MPPPTSGPPSAMTPSPQSEQSE SETVHLFIPALSVRALISKQGQH IKQLSRFAGASSKIAPVEAPDAK VRMVMAGSPEARFKAQGRIY GKIKEENFVSPKEEVKLEAHIR VPSFAAGRVIGKGGKTV\NELQ NLSSAEVVVPRDQTPDENDQV VVKITGHFYACQ\VAQRKI*EFL TQVRQHQQKALQSGPPQSRR

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21955	52323	A	22083	8	1675	TASCRLAMALHVPKAPGFAQM LKEGAKHFSGLEEAVYRNIQAC KELAQTTRTAYGPKGMNKMVI NHLEKLFVTNDAATILRELEVQ HPAAKMIVMASHMQEQEVD GTNFVLVFAGALLELAELLRI GLSVSEVIEGYEIACRKAHEILP NLVCCSAKNLRDIDEVSSLLRT SIMSKQYGNEVFLAKLIAQAC\ YLFFLIPAISMLITSEFVK/FLGS GISSSSVLHGMVFKKETEGDVT SVKDAKIAVYSCFPDGMITETK GTVLIKTAELMNFSGKEENLM DAQVKAIADTGANVVVTGGKV ADMALHYANKYNIMLVRLNSK WDLRRLCKTVGATALPRLTPP VLEEMGHCDVYLSEVGDVQV VVFKEKEDGAISTIVLRGSTD NLMDDIERAVDDGVNTFKVLT RDKRLVPGGGATEIELAQITS YGETCPGLEQYAIKKFAEAFE IPRALAENSGVKANEVSKLYA VHQEGNKNVGLDIEAEVPAVK DMLEAGILDTYLGKYWAIKLA TNAAVTVLRVDQIIMAKPAGGP KPPSGK*NWLNFYCR
21956	52324	A	22084	175	278	

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21957	52325	A	22085	208	1976	GPSPLKEHFSGLEETAYM\NILT CMELAQTTRTAYGPNGMNKM VINHLEKLLVTNDAATILRELE VQHPAAKMIVMASHMQEQEV\ GDGTNF\VLVFAGSFPVNYLKN L\WRIGLSVSEVIEGYEIA CRKA HEILPNLVC\CSAKNLRDIDEVS SLLRTS\IMSKQYGLMKVFLAK PYLLQACRIYFSWIPASMLITSE FVK/FLGSGIRSS*VLAMGVFK KETEGDVTSVKDAK\IAVYS/C PFDGHG*QET*GEQCLDKRTAL KDLDGIFR*GEQENLHG/AATSP KAIADTGANVVVTGGKVADM ALHYANKYNIMLVRLNSKM/W DLRRLCKTVGATALPR/LTPSL SLKEMGHCD\SVYLSEVGDTQ\ VVVFKHEKEDGAISTIVLRGST DN/L*LDDIER\AVDDG\VNTFQ GSLQRDKRLVP\GGGSRNRLN* PKQITS\YGET\CPGLEQYA/ILK KFA*GHLKAIPPAHWQKYSGE NSGVKAQWK*SPKLYAVHQEG \NKNV\GLDIEA EVP/SLVKDML EAGIPRYLTGKYWAIPLATNA AVTVLRVDQHTLV*FFFMQIIM AKPAG/GGPKPPKWGRKTWGD DQNGLKIGFNFYCR
21958	52326	A	22086	1	346	PF*CTPSC LWAF*TARSAQTWS APSTRWCSEWPKSLPSPTWLR *FRKVSSYSWSQSWSSPTASTD SSRPPHSLGASCHPGHQ RSLMP PSR*RATSTAYASLSSSHRPNTQ PSPS
21959	52327	A	22087	3	484	RSSQPRVGLCGKSLQP/SSEGSC HLQGWCSFPRSVSSIMAEA*RT *PRVSSSMHGRGPTQNREATKK ASSSETSV/QVTAQEAQAEPGA AGVAG/SPASAPQDSAGACWPA QVL*GGSDRSCRGSHPGNTEPP SVLRTGTAPGA*G/SSPFSPTTQS GSCCFPFSS
21960	52328	B	22088	181	359	

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21961	52329	A	22089	290	2014	STCTPLPTASSQSRPHPPPTPTTP APWRSSNGQVPTLT*PGSTLPP G/SGKSPP/VASGGPARAKPHRA VHVSPAPSGGSPGDVAELPAAV AVRA*QAGSGQRLPAPVCVGE MGTLCPGEPADVHVVCGLSE PRAPHRPGQPQARAHGVPSGQS LCPAQPG*DDS/AKVSSYSWSQ SWSSPTASTDSSRPPHSLGASCH PGHQRSLMPPSR*RATSTAWRA RTASTPRCLGPRPAPWSCASLSS SHRPNTQSPSPSPTSVRRARLATP SSHGWALAPWTPMAPTQPTTW TRWGKTVSGRQMNTWRRPWS TCARYSGSAKRSSGSSHSPWAP PRMRMEKSNSPTASWVRTDSS LRPWGGTRSSMGCEGLKLSTR GTRSCSPSGAMRSPAWSAHS LG CRLPSTTDLQDRWRLCVPGMT SSAASVATTSQLGWPA GTC*A LWGGGRWPATPAA\QAQPALP GQLPTRWSRCCWPSSWPLCSAS GPSHARCCSPWAMSSTPLP*HC *PSGGSCTSPGV SCLQSRLEGF ATQPHPWAERTWEAPPGGNTV ILGLLERGSCSRRGIWRKR NQE RKAGRAPAKE
21962	52330	A	22090	363	487	
21963	52331	A	22091	234	282	
21964	52332	A	22092	742	990	
21965	52333	A	22093	1	206	LFPAFSDSRECKLMKKLLEA\H EEQNVD\SYTEA\KEYDSIFPG WTQWLTTLLRIKKTIQG\DEK DLR
21966	52334	A	22094	128	1062	KPFEAAMYN SGKEAEAMALLA EAER\K\VKNSQSFFSGLFGGSS KIEEACE\YARAANMFKMAKN WSAAGNAFCQAAQLHLQLQSK HDAATCFV\DAAGNAF\KKADPQ GGPFNCFDCVAFEIY\TDMGR\F TIAAKHHISIC*DLLRQKLVDIE KAIA\HYRALADYYQGEESNS\S ANKCLLKVAGYA\ALLEQYQK\ AIDIYEQGWGPNAHWTSPPPSK Y\SAKD YFF\KAALCHFCMDML QA\KLAF\QKYEELFPVFSDSRE CKLMKK\LLKA\HGEQNVD\SY TE\SVKGITDSISRL\DQWL\TTH CLR\KKTIRGD
21967	52335	A	22095	1	1038	

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21968	52336	A	22096	20	2482	RVCSSSASTASQAVMADAWEE IRRLAADFQRAQFAEATQRLSE RNCIEIVNRLIAQKQLEVVHTL DGKEYITPAQISKEMRDELHVR GGRVNIVDLQQVINVDLIHIEN RIGDIIKSEKHVQLVLGQLIDEN YL\DRVGQEVNDKLQESGQVTI SELCKTYDLPGNFLTQALTQRL AIIIGHIDL DNRGVIFTEAFVAR HRARIRGLFSAITRPTAVNSLIS KYGFQEQLLYSVLDELVNSGRL RGTVVGGRQDKAVFVPDIYSR TQSTWVDSFFRQNGYLEFDALS RLGIPDAVSYIKKRYKTTQLLFL KAACVGQGLVDQVEASVEEAI SSGTWVDIAPLLPTSLSVEDAAI LLQQVMRAFASKQASTVVFSDT VVVSEKF\INDCTELFRELMHQ KAEKEMKNNPVHLITEEDLKQI STLESVSTSKDKKDERRRKAT EGSGSMRGGGGGNAREYKIKK VKKKGRKDDSDDESQSSHTG KKKPEISFMFQDEIEDFLRKHIQ DAPEEFISELAEYLIKPLNKTYL EVVRSVFMSTTSASGTGRKRT IKDLQEVSNLYNNIRLFGKRG WKFF\ADDTQGWLLPKHLLEV QCVLISLNL\FNFLGFGILMDG Q*DDPGRPFTSELRKEI\LSKLS EETKVALTKLHNSLNEKSIEDFI FC\LSAAEACDIMVKRGDKKR ERQILFQHRQALAEQLKVTEDP
21969	52337	A	22097	1	711	VLSLFDGIATGYLVLKELGIV GKYVASEVCEESIAVGTVKHEG NIKYVNDVRNITKKNIEEWGPF DLVIGGSPCNDLSNVNPARKGL YEGTGRLFFEFYHLLNYSRPKE GDDRPFFWMFENVVAMKVG KRDISRFLECNPMIDAIVSAA HRARYFWGNLPGMNRPIASK NDKLELQDCLEYNRIA\RIFGFP VHYTDVSNMGRGARQKLLGRS WSVPVIRHLFAPLKDYFAC

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21970	52338	A	22098	406	2885	GRGILVNGACSDQSSDSPPILEA IRTPEIRGGWAVGTGVVSGADI VSGHCRQWSLLSLFQSGTSL AFITWAFRETRRSESPAVSSHT SSQSTCGQHST*HT*HARGRQG RNHVDESPVEFPATRVGSPDAQ TPARSL*LGDMPHSLTIDLTDDT EDTHGTPQSSSTPYARLAQDSQ QGGMESPQVEADSGDGSSEY Q/DGREGLLPVRV/I*GP*TRGKTS YAMVVSWKATSKRQAMSGMR WVQWFGDGKFSEVSPGKGKGF CRPEAVPACLPLNKLVSRYKA MYHALEVTWDEGMRAKP*EQ G*SKRPTELEDQLKPMLEWAH GGFKPTGIEGLKPNNTQPGGNE SPWQHPLPLLVGPLLGRVRLKT NCYNNKGKDRGDEDQSRGDCW VPGIMGQMGGGRCRSGIDVIPL TPWLGL*ACLVCTCRVSPPTT ALDLPPLASSNSPLLPCGRELL LCSNTSCCR*ALGPVGVMMWVG PQGSYVPAV*EPWSCYMCLPQ RCHGVLRNRKDWNVRLQAFFT SDTGLEIVSHRLPPLPPQIPGAQ GVGKLWFDGIATGEFGEHLET LSCHNRVARESEESIAVGTVKH EGNIKYVNDVRNITKKNVRAV CTLRASSLPVFFPSPPHPNPARK GLYGEHPSLWQSLESCHLTG PGAGNK/RGLGWRFQMNPLS SFLSTGVQRDISRFLEVRESGD
21971	52339	A	22099	729	896	

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21972	52340	A	22100	1	2672	MAYKQGFLKVMVHFRKAEVT GKNHTSVHEGYTLISPAQVLT ISCKKSILLQEQVSFKDVCVDFT QEEWYLLDPAQKILYRDVILEN YSNLVS VGYCITKP\EVIFKI/ES KGEEPW\VLEKGIPQAQCPPQK RKWKV/EMNVVREQPRKMKM TIFGEPIPTTNKT VSVENGDRG SKTFNLGTD PVSLIKLSL*NM*L \SEMNLKNISGLIITKKNC SRKK PDEFNVCEKLLDIRHEKIPIGE KSYKYDQKRNAINYHQDLSQP SFGQSFEYSKNGQGFHDEAAFF TNKRSQIGETVCKYNECGRTFI ESLKLNISQRPHLEMEPYGCSIC GKSFCMNLRFGHQRALTKDNP YEYNEYGEIFCDNSAFIIHQGAY TRKILREYKVSDKTWEKSALLK HQIVHMGGKSYDYNENGSNFS KKSHLTQLRRAHTGEKTFECGE CGKTFWEKSNLTQHQRTHTGE KPL*CTEC\GKAFCQKPHLTNH QRTHTGEKPYECKQCGKTF CV KSNLTEHQRTHTGEKPYECNA CGKSFC HRSALT VHQRTHTGE KPFICNECGKSFCVKSNIIVHQR THTGEKPYKNECGKTFCEKSA LTKHQRTHTGEKPYECNACGK TFSQRSVLTKYQF\HTRVKAL* TS*MLEAFIHL/SKLVIQFQKRRS EKAKCECQKFVEKTSCLNM*KL SRKIKTFH*KICKLTVKNKG NK
21973	52341	A	22101	1	2817	

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21974	52342	A	22102	474	2766	NQTALYNQAQLLHGSRFANMS AEGYQYRALYDYKKEREEDID LHLGDILTVNKGSLVALGFSDG QEARPEEIGWLNNGYNETTGERG DFPGTYVEYIGRKKISPPTPKPR PPRPLPVAPGSSKTEADVEQQA LTLPDLAEQFAPPDIAPPLLIK VEAIEKKGLECSTLYRTQSSSNL AELRQLLDCTPSVDLEMIDVH VLADAFKRYLLDLNPVIPA YSEMISLAPEVQSSEYIQLLKK LIRSPSIPHQYWLTLQYLLKHFF KLSQTSSKNLLNARVLSEIFSPM LFRFSAASSDNTENLIKVIEILIS TEWNERQPAPALPPKPPKPTTV ANNGMNNNM SLQNAEWYWG DISREEVNEKLKRD SADGTFLV RDASTKMHGDYTLTLRKG GNN KLKIFHRDGKYGFSDPLTFSSV VELINHYRNESLAQYNPKLDVK LLYPVSKYQQDQVVKEDNIEA VGKKLHEYNTQFQEK SREYDR LYEEYTRTSQEIQMKRPAIEAF NETIKIFE EQCQTQERYSKGNY HLEKFKP *RAMEKEIQRIMHNY DKLKSRISEI DSRRRLE EDLKK QAAEYREIDKRMNSIKPDLIQL RKTRDQYLMWLTQKGV RQKK LNEWL GNENTEDHYS LV EDD EDLPHHDE KTWECLGSS RTRN QSLKNLFARGSRDGTFLVRESS KQGCYACSVVVDGEVKHC V
21975	52343	A	22103	3	392	
21976	52344	A	22104	168	404	

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21977	52345	A	22105	49	1760	YQSPAWQSHWHQKLQVRKEN MAKRVAIVGAGVSGLASIKCCL EEGLEPTCFERSDDLGLWRFT EHVEEGRASLYKSVVSNSCKE MSCYSDFPFEDYPNYVPNSQF LEYLKMYANHFDLLKHIQFKT KVCSVTKCSDSAVSGQWEVVT MHEEKQESAIFDAVMVCTGFL TNPYLPLDSFPGINAFKGQYFHS RQYKHPDIFKDKRVLVIGMGNS GTDIAVEASHLAEKVFLSTTGG GWVISRIFDSGYPWDMVFMTR FQNMLRNSLPTPIVTWLMERKI NNWLNHANYGLIPEDRTQLKE FVLNDELPGRIITGKVFIKPSIKE VKENSIVFNNTSKEEPIIIVFAT GYTFAFPFLDESVMKVEDGQA\ SLYKYIFP\AHLQKPTL\AIIGLH/ IKPLGLP*LPTGETQVRWAVSG S*KVLTRLPPPSVMIEEINARKE NKPSWFGLCYCKALQSDYITYI DELLTYINTKPNL/FSLWLLTDP TSGLWTVFFGP\CSPYQFRLTG P\GKMGKGAQEIALHGPQW\DP NISRVHVKVRSCYKEFSIFPF GK FFLKVFSFPGFGLWLFFLIFPYK
21978	52346	A	22106	262	969	EWSSVRRSLVEKRALRRPHPQC LCFRMKTIL\SNQTVDIPE\NVDI TLKGRTGIREGPPEGTLR\DFN\ HIN\VELSLLWKEKKRGSRVDK\ WWGNQKRNWPTRSD*FVSHV QN\MIKGWLHWGFRLQG*GPV YAHFPHQPLSRKNGVSWLKIR KFLWGEKY\RRVSG*RPGCCLL VSVSQGPRKDEINPLKG\NDIEL VSK/SSAGF*FQQATTS*KTRNI RKFL\DGIFCLLEKGLFRQA
21979	52347	B	22107	211	457	
21980	52348	A	22108	1	159	KEAENQCLDISSPGMSGHRQGH DSLEHDELREIFNDLSSSEDED ETQHDEK*LDISSPGMSGHRQ GHDSLEHDELREIFNDLSSSEDED ETQHDEK
21981	52349	C	22109	167	367	

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21982	52350	A	22110	754	1950	VKGKDDAPHELGE/SQFILRLPP VEYASTVRRVQSGHVNLDRL TMELHPDGRHGI\VRVDRVPLAS KLVD\LP\CVMEEPENPLLKKPF SKTAIIGQMLVSTVDGDLFPPV EEPSCLALDPKAS\KKKDKDKE KK\FIW\NHGITLPLKNVRKRRF RKTAKKEIYLNLPDV*KKELKR LLEVPDA\EA VSTRWGIICPKV ETKG\AENQG\LDISSPGMSGH R\QGH\DSLEHDELREIFNDLSSS SEDEDETQH QDEEDINIIDTEED LERQLQDKL NESDEQH QENEG TNQLVMGIQKQIDNMKGKL\QE TQDRAK\RQEDLIM\KVGNLGS PRTDFQAVLGMSFNQREDREK EQL\SSLQEELESLLREVKKNLM FNFQSRLVQHLGKFFGLLLLL GYLRPCSS
21983	52351	B	22111	227	355	
21984	52352	A	22112	121	486	WGPALCIGGYLASFLASVHLMF LR*GEMLSF*GLSFSFRFPGFKE VRLVPGRHDIAFVEFDNEVQAG AARDALQGFKITLSPLKVSPPL GAFLEPCVSEWSPHSIVPRVCPQ TLHLALLGRN
21985	52353	B	22113	8	165	
21986	52354	A	22114	1	218	
21987	52355	A	22115	566	1412	TLHSMVAVPETRPNHTIYIN\NLN EKIKKDELKKSLLRPSFF/SSLG QILGYSWG IHGRP*RMEGARPF SIFKEVSSGTNALR\SMQGFPFV\ DKPMRIPVLPRTRLQDIHLPRIE RAPFIGSRDPKAGERGRPKSQG DPGPPKEGLCKGGGSHPRGGG LSRGP GPGHCPPMT\KAPRI\MH HMPG\QPPLTAAPLDMIPPPG\L APGQIPPG\AMPP\QQLMPGQMP P\AQ\PLWRNPP\NHILF\LTNLP\ EET\NELMLSHAFSNQVPPGFKE GPVWVPRAGNEHRPSVEV

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21988	52356	A	22116	2	1176	FGELSTFDVVRGPPRRCPDAD PRAPGLALPGRLLVSNRRTHS RESRAPPAPHLLGARAGMAPPQ VLA\FGLLLAAATATFAAAQEE CVCENYK\LAVNCFCE*INRQC Q\CTSVGAQNTVICKLGCQMF W*MKAEMNGSKLGRRAKPEG GLQ\NNDGLYDPDCDESGLFKA KQCNGVTSTC\WCVNTAGVVRT HKDTEVTCSEVRVRYWIIELKH KAREKPY\DSKS\LRT*LQKEITT RYTLGSKFLSRVFWYENNVITI\ DLFQNFSSKLRNDVDIADVAY YF\EKDVK\GESLFH\SKKMDLT VNGEQDLDLLIPGQTL\IYNVD EKAP*/DFSMQGLK\AGVIAVIV VVVITSCCWKLLVLVISQKGRE WQKYEKAEIKGDGCRCHRELQ
21989	52357	A	22117	3	257	AKALQWPLGRGGGGTPRGSRP PGPH*SERGAVQPRSLPRQAA* RVPSGPADGQ*DGHGAADPGS RQRCKPWSEAADLHSECYSS
21990	52358	A	22118	1467	1748	SEYNCCCEIGCPQPSWGPWGRG\ TDVRQGQVGEEVHG/ECGGG SQG*RPG**AGSPAP*PGTWGT AQQGPAAVLDPLRV*GGGIERH PLHSVGL
21991	52359	B	22119	1	1461	
21992	52360	A	22120	29	417	

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21993	52361	A	22121	616	1671	TATCKPWSMRTTITSSSQPKLT NSVKLPSSAKCISVSRIGGFLVS LTSRMKLRLLICSKLLPSGGV RGLAGSGVKLQTFVSVTALK AACLELFTSPGGFMVLLASEVK LQTFSA GDSDCLGQRRARRRP GPGVSAVGASGQQRAPESNERP AEEPTAPMPSSAPRGPTPEPALR RPSSADRPLAPGAGRAPGAMAS PSGSSKATGKPRGRDGRPRREE DDVTPEEKRLRLLEEGSAQPD DCEDAPRGRKETGTQTGGDG RGAARAALLAVGGIRAPLPSLG VAPGC\PMSKPPRRHPGATPR/P GQGGSDAAHGEEGCPCCSSAV ATCLGAGLLP\PRGASSPSSGC ALPSSSNSRSLFSSGVTSSSSLLG RPSLPRGLPVALELPEGLAMAP GALPAPGASGLSAELGRLSAGS VGPRGA\G*ASGRAWAPRAAR CSLAPSAG\PRAHRGHAGPWPA LSSP/GPGPSSRCPLPRRSAASLL KPAR/AINPPGEVNNRHAALR AVTLTVKVCSTPEPARPRTPE GRSFEHRRVRSFILEVSETKNP PILDTLIHLALGGSFTLFVNFCG WDELIVVLIDQGLHVAV
21994	52362	A	22122	892	1931	CTWNNQRMEIVWEVFLFLQA NFIVCISAQQNSPKIHEGWWAY KEVVQGNFVPVPSFWGLVNSA WNLC SVGKRQSPVNIETSHMIF DPFLTPLRINTGGRKVSGTMYN TGRHVSLRLDKEHLVNISGGPM TYSHRLEEIRLHFGSEDSQGSEH LLNGQAFSGEVQLIHYNHELYT NVTEAAKSPNGLVVVSIFIKVS DSSNPFLNRML\NRDTFTTRN*H FKNDGIFYRGL*YRGELLFQG TSSFITYDGV DGLFPTPGY/SRT ASWIIMNKPV*YNPGCKMHSLR LL\SQEPAISRSLMSDNFRPV QPLNNRCIRTNINFSLQKDCP NNRAQKLQYRVNEWLLK
21995	52363	A	22123	17	417	
21996	52364	A	22124	63	449	CHPALLGPTGHGAWPRHRAPD TLRASAGGRDP*GRRSAPA*ER QP*PPVYCAGISQYD*TALSSCL RRSVRTSTDFRSLDKSNYSVF LCFLQLAGRRYFAMWTRPEFFL ARDPRSLSWGLEWRPLSL
21997	52365	B	22125	1	1131	

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21998	52366	A	22126	359	548	
21999	52367	A	22127	755	1031	TRGVLEHMA LGKGT LKDP SGP AP* NHPE\ VSHA ASTQEA AGPP AGRPGH GSGCLALPASSTSLEP GLRQDH D LLLQLLWREQEVFH DVIQLL
22000	52368	A	22128	1	277	
22001	52369	A	22129	1	933	
22002	52370	A	22130	339	863	PSPV PARPVC PSSAPISM RP PCP WREAEA ADLRPEAPGHRDGED VGFLSSGQLSGLCSKRKLQPTR AALTLT P SAVNKIK\ HFLKNNPE HVGKVG VRTG CNGLSY TLE YTKTKG DSDEEVIQDGVRVFIE K\KAQLTLL*TEM DYVEDKLSK GVGVITPNIKGT CGCGESFNI
22003	52371	A	22131	16	419	QIQHRPWP/SRSYTNVLGRKV YLPSFFTYAKYIVQVDGKIGLF RGLSPLMMSNALYTATRCFMK KDLPPDEIEQVSNKDDMTSLN KVANDTSYEMMMHCVSRMLP HPLHVISMRCMDQIVGREAKYS GVLSSIG
22004	52372	A	22132	3	441	RSYTKFVMGIAVSMLTYPFLLV GDLMAVN NCG LQAGLPYSPV FKSWIHCWKYLSVQ\GASTGRR RPFLFFATSF S*NGFVDASLHAK GQLFRGSS\CF SAGCHQDHALP WSNLNHLKNTVSTWPPWVRPD HLGTPARRLQPNNNQM
22005	52373	A	22133	1	1232	MAGAGAGAGARGGAAAGVEA RARDPPPAHRAHPRHPRPAAQP SARRMDGGSGGLGSGDNAPT EALFVALGAGVTALSHPLLYV KLLIQVGHEPMPPTLGTNVLGR KVL YLP SFFTYAKYIGQRD G\RE GLVPRLSPRLMSNALSTVTRGS MKKVFPPEIEQVSNKDDYEDF P* RKLLKETS YEMMMQCVSRM L\AHPLHVISMRCMVQFVGREA KYSGLSSIGKIFKEEGLLGFFV GLIPHL LGDVVFLWGCNLLAHF INAYLVDDSVSDTPGGIGKRPE SRFP\FSQALALRSYTKFVMGIA VSMLTYPFLLVGDLMAVN NCG LQAGVPP\YSPVFKSWIHCWKY LSVQGG\LFRGSS\CF SAGCHQD HALPWSNLNHLKNTV\STWPP WVRPDHLGTTARRFQPNNNQ

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22006	52374	A	22134	3	1156	PRHPRPAAQPSARRMDGGSGG LGSGDNAPTTEALFVALGAGV TALSHPLLYVKLLIQVGHEPMP PTLGTNVLGRKVLVLPFFTYA KYIVQVDGKIGLFRGLSPRLMS NALSTVTRGSMKKVFPPDEIEQ VSNKDDMKTSKKVVKETSYE MMMQCVRMLAHPLHVISM CMVQFVGREAKYSGVLSSIGKI FKE\EGLLGFFVGL\IPHLLG\DV VFLWG\C\NLLAHF\INAYLVDD SFS\QAL\AIRSYTKFVMGIAVS MLTYPFLLVGDLMVNNCGAA SWGSPPYSPVFKSW\IHCWKYL SVQGQLFRGSS\CFSAGCHQDH GFALGVN*NHLKNT\VSTWPPW VRPDHLGTPARRLQPNNNQMC SSPAG\FQFHICHVSV\QMWG
22007	52375	A	22135	2	425	
22008	52376	A	22136	2	430	
22009	52377	A	22137	2	406	
22010	52378	A	22138	1	297	
22011	52379	A	22139	1	111	
22012	52380	A	22140	1	398	
22013	52381	A	22141	1	409	
22014	52382	A	22142	500	1234	GPNCRPPSCSAVEGAWPRPQGA GARAAIALSQKLELGGVGLVQ VQCPSLAPSTSSILFLCLLPHPP PHRCLQENTTCLLGVEGVLLQ SPFPLLKTDHSSLPALAPTQSQA ALWGFADFGFMFESSPGGNLG WEPDIKLTDEMVMIMGGKMEA TPFKWFMEMCVRGYLA VRPY MDVVVSLVTIMLDTGLPCFRG/ QIKFLKHRFSPNMTAREA*NFIM KVIQSCFLSNRSRTYNMIQYYQ NDIPY
22015	52383	A	22143	2	6378	SAGPAGPLQVQKLLCMCPVDF HGIFQLDERRRDAVIALGIFLIES DLQHKDCVGPYLLRLKGLPK VYWVEESTARKGRGALPVAES FSFCLVTLLSDVAYRDP SLRDEI LEVLLQVLHVLLGMCQALEIQ DKEYLCKYAIPCLIGISRAFGRY SNMEESLLSKLFPKIPPHSLRVL EELEGVRRRSFNDFRSILPSNLL TVCQEGTLKRTSSVSSISQVSP ERGMPPPSPGGSAFHYFEASC LPDGTALEPE

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22016	52384	A	22144	3	398	IHKAASGVPPQPDAGCPGTGEQ QGGQRCGQ*AGP/AQAPC*SRA GTR/PTCFFVLTSLRSWYRVDSP NKLMNPLVAGFFG/CHCGSGQC LRKCSSARDRAPDARPGDLAQ GRCCHCNKACLHASETGVGTT SVL
22017	52385	A	22145	344	498	
22018	52386	A	22146	344	406	FLADQEDPLDPRAGCR*ETTAP RIPSKGPSSTEPLHASTAVPPCQ GELGCSRASPASEKI/DLAGRLIS PCNSDTVSPGLGGFMTCQAQSLI SRRPGGPIGPPGWLQGPHLG
22019	52387	A	22147	3	2058	LSGSGAPPPGVGAQAAAAAEE EEREVVRVRVKVRLAVSRPSRR GKFRSFAVDPQITSLDVLQHILI RAFDLSG*VGRCWGLLGRDRL GQEVYLSLLSDWDLSTAFATAS KPYLQLRVDIRPSEDSEYSVPPG AISP KDVIGSDVLLAEKRSSLTT AALPFTQSILTQVFSGLGTQQ VLSWSYGEDVKPFKPLSDAEF HTYLNHEGQLSRPEELRLRIYH GGVEPSLRKVSILSHLLVYPDG LTGRERMDYMKRKSREYEQLK SEWAQRANPEDLEFIRSTVLKD VLRTDRAHPYYAGPEDGPHLR ALHDLLTTYAVTHPQVSYCQG MSDLASPI LAVMDHEGHAFVC FCGIMKRLAANFHPDGRAMAT KFAHLKLLLRHA\DPDFYQYLQ EAGADDLFFCYRWLLELKREF AFDDALRMLEVTWSSLPDPPE HEVELVGPPSQVADTGFCDHR G\WPVRQRHMLRPAGGGGGSTF EDAVDHLATASQGGGGGRL RQASLDGLQQLRDNMGSRSDP LVQLPHPAALISSK\GLSEPLLN YPDPLLSSFSHPDSSSSPPSTQ EASPTGDMAVGSPLMQEVGSP KDPGKSLPPVPPMGLPPPQEF RGNPFMLFLCLAILLEHRDHIM RNGLDYNELAMHFDRLVRKHH LGRVLRARRALFADYLVQSEVW
22020	52388	A	22148	130	387	
22021	52389	A	22149	1	279	

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22022	52390	A	22150	105	499	DMSDTSESGAGLTRFQAEASEK DSSSMMQTLLTV/TPEAREAPA TQASSTTQLTDTQVLAAENKSL AADTKKQNADPQAVTMPATET KKVSHVADTKVNTKAQETEEA PSQAPADEPEPESAAAQSQENQ DTR
22023	52391	A	22151	285	984	TSLSCYFSRTKDSPKLGLLMVL LSIIFMNGNRSSEAVIWEVLRKL GLRPGYDWALSALAVRVVLW QERTVLGLHQSGGLVERVGCW TG*RAQGS DLGG*WVNGPELS APSLSVSWASMELPSCAGNLF ILEMPLPTSGKCHSLE*IYLFYF SFSSLRIHHS LFGDVKKLITDEF VKQKYLDYARVPNSNPPEYEFF WGLRSYYETSKMKVLKFGCKV QK\KDPKEWAAQYRE
22024	52392	A	22152	259	578	
22025	52393	A	22153	296	2242	NMSDTSESGIAGLTRFQAEASE KDSSSMMQTLLTVTQNVEVPE TPKASKAL\EVSEDKVSKASG VSKATEVSKTPEAREAPATQAS SYLLSLTD\TQVLAA\ENKSLAA *HQGNRMVDPQAC*QLPAT\ET KKVSHVADYGRFNYKGFRRLR LAPS\QAPADEPEPESAAAQFSG RFRVFGPKVKAKKARKVKHLD GEKDGSSDQSQASGTTGG\RRV SKALMASMARRASRGPIAFWA RRASRTRLAA\WARRAFALPLEI TLKPRRAKGLRR\RVAKFQ\SSQ EPEAPPPRG\LALLQGRANDLV KYLLAKDQTKIPIKRSMDMLKDII KEYTDVYPEI\ERAGYSLE\KVF GIQLKEIDKNDHLYILLSTLEPT DAGILGTTKDSPKLGLLMVLLS IIF\MNGNRS\SEAVIWE\VLRLA GLRP\GIHHS\LLGDVK\KLITDE F\VKQKYLGLCQKVPNSNPPEY EFLGACALY**EPAKMKSPQS FACK/VYQKEGSPRNWGSSVPP REGKGRMEADFECKLRLTLE AKAKGPRLEAPNGPLGLGSGE MLAGP\CNWDEA\DIGNPWAK ARIPRREQKLKAKAPKRSGSA\S TGA\STST\NNSAS\ASA\STSGGF \SAAASL\ATLHIWGSSAGLWL ELGCQHQSARSGAC\GVSYK

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22026	52394	A	22154	1	487	EFRQPSFRRSIWP/YFLLTQA/VRTGNPAKFNQVLDQFGEKFQADGTYTIIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQLDSPEDAEFIVAKAIRDGVIEASINHEKGYVQSKEMIDIYSTREPQLAFHQEGKDSSVYSFREWGTGTGMSWLVCFLKLRL
22027	52395	A	22155	2	429	
22028	52396	A	22156	1	328	GTRFQADGTYTIIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQLDSPEDADFIIVAKVGLVQEPQ
22029	52397	A	22157	138	2206	AVTPGAMKQEGSARRRGADKAKPPPGGGEQEP\APAPQDVE MKEEAATGGGSTGEADG\KTA AAAA*SNFPAKSWDYSHLWKD IKEHRETS*RKAVSGKEPRFVLR ALRMLPSTSRRLNHYVLYKAV/QGAFFTSNNAT\RD\LLPFLERA HGTQEADLLFRPRTGKAAGT\LLPEVEAYLQLLVIFMMNSKRYKEAQKISDDLMQKISTQNRRAL\DLVAAKCYYYHARVYEFL\DKL\DVVRISLHG\RLRTATLRHD ADGQAT\LLNLLRNLY\HYKL VPTSLRSLVSKSVFP\EEQAQQP NEWGQVTSYLHQGRIKAIQ\LEYSEARRMTNALKAP\QHTAV GFKQTVHKLLIVVELLLGEIPDR LQFRQPSLKRSLMPYFLLTQAV RTGN\LPRFTQVLDQFGEKFQADGTYTIIIRLRHNVIKTGVRMISLSYSRI\SLADIAQKL\QLDSPEDAEFI\IVAKAIR\DGVIEASIN\HEKAYVQ\SKEMIDIYST\RD\PQLALH\QRISFCLDIHNMVWSRPMRV PSPKSYKQGSWSLQRNGRERR NKQDLE\FPKEMA\EDDDDSFPL KLGGWGGVRGKWGTRQLCPP WGYPLPQGTCP\PFSPHTAHML AFRGRGWGCWEPATPDLP\GGLPSRVTLVQPGRRVGRQPPRG RVLASSVADRRGRISLCTPFREWGTRTW\DVYGLLCFLKLRL
22030	52398	A	22158	86	348	

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22031	52399	A	22159	3	356	LPLSMDVRAPPVMAAVDQAL KEFGRIDILINCSSSCGLPFCR\ AAGNFLCPAGALSFNAFKTVM DIDTSGTFNVSRVLYEKFFRDH GGVIINITATLGNRGQALQVHA G\SAKAAVD
22032	52400	A	22160	3	255	GPWSCHAGA*GPGATQVSEDQ GLREPHGSRDLCSLG*KH*GAPI CAWPMSWDGPPAAHKVRPSVS APPVCINTLCYNLASAFS
22033	52401	A	22161	3	360	
22034	52402	A	22162	240	1356	AGNPSGIPGTRVHRCQRGGFAS TWSGRGAGSTPLQNSPPRQPHR EKEFLRQVLEGGSHTGVRPSA ARLVNPNPHSLVSPDLL*LVSRA T\PHIFLAARKLAGATGRRCLPL SMDVRAPPVMAAVDQALKEF GRIDILINCESVLSEVGGFSQAP AAPAVSHSAGAAGNFLCPAGA LSFNAFKTVMIDTSGTFNVSR VLYEKFFRDHGGVIVNITATLG NRGQALQVHAGSAKAAVDAM TRHLAVEWGPQNIRVNSLAPGP ISGTEGLRRLDASQGMSWGRG EGAGSWGSRGLSLLPS\GGPQ ASLSTKVTASPLQRLGNKTEIA HSVLYLASPLASYVTGAVLVA DGGAWLTFPNGVKGLPDFASF
22035	52403	B	22163	214	1647	

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22036	52404	A	22164	1765	1910	LSHPHSRTPPNRTPRRTRIPQRP AVMYSPLCLTQDEFHPFIEALLP HVRAFAYTWFNLRARKRKYFK KHEKRMSKEEERAVKDELLSE KPEVKQKWASRLAKLRKDIR PEYREDFVLTVTGKKPPCCVLS NPDQKGKMRRIDCLRQADKV WRLDLVMVILFKGIP\LESTDGE RLVKSPQCSNPGLCVQPHHIGV SVKELDLYL\AYFVHAGRISSQS ESP\SQ\PSDADIKDQPENGTFGA SRDSFVT\SGVF\SVT*A*LRVSQ TPI\AAG\TGPNFSLSDLESSYY SMSPGAMRRSLPSTSSTSTKRL KSVEDEMDSPG\EEPFTGQAR SPGKWTVSPGLSVSWSQGMPS PTTLKKSEKSGFQQPLPFRPPS LGNGFHTAFTDLFIYQGPQSKF HIATPSIL\HFPRHSPFFQQPGPY FSHPAIRYHPQETLKEFVQLVCP DAGQQAGQPNGSSQGKVHNP LPTPMLPPPPPPMARPVLPVP DTKPPTTSTEGGAASPTSPTR /PGRTRPQQPFL/SYGPP*PHFLR AGIHHL
22037	52405	A	22165	63	250	
22038	52406	A	22166	1	817	SRLGHPRKDMDDDTKATLISY MSLSFRHGYCFSEDPCVHTEL IQSGRGGRGDPDPGNALE*LA HLGP/SSHLGP*AQDGLVDAAG RASPLAGTEGAGRFSLQPI/GP RGPE*GAAGERFPSGVAG/GPR GAHGLPCPEQLQLQPPPPS*MP KTGSTFVAHFPSPLAQGHSPPG GGAGWCSGCSPDRPPLGVGS HGELLNPNSPAYEVGAG/RPAT GSSGTRAGPPSPSHSAPGRTPSV SLCD/RHQCLRASPTGSIGSLPA HWREGLAGPLMD

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22039	52407	A	22167	240	1790	TAKNSYLESCPLHMENSIHQWP RQFPFPVRRQGADAACGAGSQ ALVPSHSDTDGVLPGAEWLGD GGPARVP/GAAGGRGPAPTS*A GP*LSL*APLCF\SLSGNGKQL LGAAGRSSSHAQMHELHPAQ* HE*ATDHTGGQGPP/G*KQQNG PP/GPDNDLPAPESTPPTWNEDF LPDAIPLAHPVPRQRRPTGPAGP PGQTGPPGPAGPPGSKGDRGQT GEKGPAGPPGLLGPPGPRGLPG EMGRPGPPGPPGPAGNPGPSN SPQGALYSLQPPTDKDNG\TQG WPLPSWTQCW/SGVPGPRGPPG PPGPPGPRGPPGPGTPGSQGLA GERGTVGPSG/AGGAAAERGPE DPGRASPHPGAHDWDPRSPGLP RGRFWPGCCPESQPQDEEGWH PTRWGPCCPAWARPWTEERG/S RPAAGS/RGVSDISETPGRPIYPD DKSQSAVSVLCARSRLRAQLRP GAEQMNDCKGITGRQDIHAV SFASEHNIQNWVSKHLQLSPPV TPATQAPLKVRVPQASTLVL
22040	52408	A	22168	104	271	PSCTNPYGGGRRCDSSVVPNQCF TKHMQSRLLG*GEKALEGGGG RGVKSLVTKRDF
22041	52409	A	22169	494	1074	KGTTLCQKHWWGGGYLHWG\HF EMMRLTIN\RSMDPKNMFAIWR VPSPFQ\PITRKSVGHRM\GGGK\ GAI*HYLTP\VKAGRL\VVEMG GRCEFARSAKVSLTQVALRSCP FASKRL*ACGTPREGCEQDQEE RERQQPRTPTWI*AE*PTAQHG WAYGKVPEPHMTLTPQGEILG ARFYMPKTCVVSVDILYIGY
22042	52410	A	22170	61	329	NQRSGKKSQPW*STITPPSLIWL SNSSTLSSSKMGQSYSSS*PSY NCSVSRMFGSNMVPAATASGA SLTCPLLWLSMTHFRRKVGWW A
22043	52411	A	22171	21	444	STAQSISRSDLHYFLALLVYYW AADARFLPGRIPWLIHKELEKS HTEYCLVGSSQYTPLVQVFRSN TLVSVLSTKI*NRSGKKSQP W*STITPPSLIWL SNSSTLSSSK MGQSYSSS*PSYNCSSRAKSPTL TVFQS

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22044	52412	A	22172	163	1056	LEKSDHRISWSPGKTA\SPKSMP ERWHR*WAQILKD\MGIT\EYEP R\VIN\QMLEF\AF\RYVTTIL\DD AKIYSSHAK\KATVD\ADDVPIG QSRC\RAGSSLFTSPPPKRF/LLL RYLARQKKSNPFCPLIKPY\SGP RLPPDRYC\LTAP\NYRLKSFTE KGHSTSAGKELTVP\RLSVGFRL LSRTKVLPTLGAHPTPQ\TMSVF NLK*GTPHVPSPGQRFSTSTRCPT S\QS\PAVKSFQFPGNLSQFQNV L\INPIH*IGSQKHSYYPLNMMS S\QNTA\NESSNALKRKREDD DG\DDDDDDYDNL
22045	52413	A	22173	215	344	
22046	52414	A	22174	302	1330	ACEQKRGEGGNKNRERRKGE KAGRRQGTRQPCSRMRRTKQ VEKNDDQKIEQDGIKPEDKA HKAATKIQASFRGHITRKKLKG EKKDDVQA\AEAEA\NKKDEAP /VFADGVEKKGEG\TTTARSSPQ PLAPK\DEPGKAGETS\SEEKM GEG*LLATEQGSPPRLLAS\SEE KAGSAETESATKASTDNSSSK AEDAPAK\EEPQADVPA/AFG VFPNPLGALLAATTPAAEDAA AKATAQPPTETGESSQAENIE AVDE\TKPKESARQDEGKEEP EA\DQEHAWSNGEMGFPHPHPP GCLACLSLPSSQLHSEVPSCPAH VCESVLSHPLALFLSVWANI

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22047	52415	A	22175	2	1577	HGFRLLPHQPALRRLLDQRRPK TEDRCGHWDQILDLSIIKHLFS MSFIPVAEDSDFPIHNLPGVFS TRGDPRPRIGVAIGDQILDLSIIK HLFTGPVLSKHQDVFNQPTLNS FMS\LGHAAWKEARVFLQNLL/ SL*SQARLRDDTELKCAFISQA SATMHLPATIGDYTDFYSSRQH ATNVGIMFRDKENALMPNWLH LPVG\YHGRASSVVVSGTPIRRP MGQMKPDDSKPPVYGACKLLD MELEMAFFVGPGRNLGEPISK AHEHIFGMVLMNDWSARDIQK WEYVPLGPF LGEEFWGPLSLP WGGCPWDAL\MPFAVPNP KAV PQAPCRYLCHDEPYTFDINLSV N\LKGE\GMSQAAT\ICKVQILK YMYWT\MLQQAHSPTLSNGC\N LRPGGPPGLSGTHQAGPEP/EKN FGSMVE\LSWKGTKPIDLG\NG QTRKFLLD\GDEVIITAMATRD FKWYC\QGDG\YRIGFGQ\CAGK VLPALLPIMRFSLLFWKQRAQS TPFQPCDWGSSPRAVGLVPPFQ
22048	52416	A	22176	3	623	DSRNSSILPRRGALLKVNQELA GYTGGDVFSFIKEDFELQLNKQL IFDSVFSASFVGGMLVPIGDKP SSIADRFYLGGP TSIRGFSMHSI GPQSEG DYLGGEAYWAGGLHL YTPLPFRPGQGFGELFRTHFFL NAGNLCNLNYGEGPKAHYIVK LAECIRWSYGAGIV\LR LGNIAR L\ELNYCVPMGVQTGDRICDGV QFGAGIRFL

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22049	52417	A	22177	352	2397	GPMSEGIASQGARRRRRGIMGLR GLWASRADGRRGETEPEAKQEI LENKDVSFLLKVLIELLVETFTS IHH*GDDVFKAKNLIEVGVVST WCAFPVSSEELVNVPM*NIDTC QGTTCGVVSL*FPFCPSEKSCFY GQNNTMVGNNEGSMVCYRLF TFLYWNLELGTFTL*LHSKETS YGLSFFKPRPGNFERK*EAQQII EYTGIEKLL*VAYL*KSAEYS VS\AFQSFPLGLGENRVAFLIP KGSYLIQ*VSNGCWHLHCQPLL WGSYHRILAEELRVLIESTWPFE G*LCNGTSQAFSCGPCTPSRSSA RHGHSVCGQLLVADVPGVKG MLGENNHLFLKY*SMNG*FA/L YFPLDLFSCFL*ESFPLTAPSLEG SRLTLETMYLLCQGGFGELEFRT HFFLNAGNLCNLNYGKTCAIQE TIVVQLFSCSLKAQYTKIRLGZIA RLELNYCVPMTGVQTDGDRYVLG IIFHNHPLSSNIFLFWTWFASGD TAGAARLLRLPTDDRAFRDGG GCSHNRQLPFPSTPLLFSTQSPS WKGCSHAGCMHVCLGAQLPG LGAQLGHGSESQVERLLACGG RWGARRQGCCWHDLPKAPHA GCFLAGEKKVGDDQEPCTKTA AVREGESVGCTAEGGCLGLSG GCQGWLAPGLVELRSAAARQE GSRRRRKRRRHLLRVHPQKV
22050	52418	A	22178	1	1017	
22051	52419	A	22179	1	435	
22052	52420	A	22180	1	1353	
22053	52421	A	22181	1	834	
22054	52422	A	22182	2	2675	

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22055	52423	A	22183	72	1339	AMRGANAWAPLCLLLAAATQ LSRQQSPERPVTCTGGILTGESG FIGSEGFPGV\WPPEKCTWKIT VPEGKV\VLNFRFIDLESDNLC RYDFVDVYNHANGQRIGRFC GTFRPGALVSSGNKMMVQMIS DANTAGNGFMAMFSAAEPNER GDQYCGLLDRPSGSFKTPN\W PDR\DYAGVTCVWHIVAPKNQ LIELKFEKFDVERDNYCRYDYV AVFNGGEVNDARRIGKYCGDS PPAPIVSENNELLIQFLSDLSLTA DGFIGHYIFRPKKL\PTTTEQPV\ TTTTFPVTTGLKPTVALCQKQCR RTGTLEGNYCSSDF\VLAGTVIT TITRDGSLHATVSIINIYKEGNL AIQQAGKNMSARLTVVCKQCP LLR\RLNYIIMGPSRVKDGAR QNSWPNSFIMMFQTRNQKLLG CP*KISQC
22056	52424	A	22184	49	170	HTVGDGRLLRRP*REFGASFL* CFLEARFGLKNWGHWCWRH
22057	52425	B	22185	597	651	
22058	52426	A	22186	1	791	
22059	52427	A	22187	2	943	TGACAEPRVGLLFRLKGRCRG GRNMELGSCLYGFREAAEEEG EPEVKRRLLCVEFASVASCDA A\AQCF\LAENDWEMERALNS YFEP\AEES\ALERRPETISEPKT YVDLTNEETTDSTTSKISPS EDT QQENG\SMFSL\ITWEYLMGLAD LKQSVQRRARGVCSYLAL*VLS LLFNSNVSYVYTERMNQLKMOV LKKMQEAPESATVIFAGD\TNLR DREVSDKVSLMFEDRLLLWRLI *VPFCQYTWD\TQMNSNLGITA ACKLRFDRIFFRAAAEEGHIIPR SLDLLGLEKLD\CGRFPSPDH\WGL LCNLDIIL
22060	52428	A	22188	277	534	

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22061	52429	A	22189	29	1305	VGVVLRVECPLCPGPAPMSVPA FID\SEEDQAAELRAYLKSKGA\ EISEENSEGGLHVDLAQIIEACD VCLKEDDKD\VESVMNSVGIPY SWIL\EPDKQ\EAFDLKALCEKA GSKFPRR*TAPSLETCSFLSNLF H\GMG*GILPVKIHVSICSL\IKV\ AASCG\AIQYHPQLEPGIKFRK WDFLNWN\LTTGKKSTPLLKTT FMKALVE\CKKSDAASKGM\VE LLGSP\EGNASQ\ARVDAHR\ IV\RAKDPN\AFLFD\HLLTLKP VKFFGKASLFHCSFLT\KF\VSA* MGHHMSRFYPD*LRTFH*IPLG PVTMDPGIWPKMRLLF/TFMGN GQ*KNKEISF*PQCQEPSRLGA D\DVESHVIDA\VRN*KWVYC QNWSRPRRKVVVSHSTHR\TFG K\QQWQTTVLTHLNAW\KQNL NK\VKNSLLSLF
22062	52430	A	22190	194	413	
22063	52431	A	22191	3	160	EVKFQWVLSLG*SFSLPKSSFQ RCGAGGAVHWSTALFLLGAAS ASSYHQRPG
22064	52432	A	22192	268	473	
22065	52433	C	22193	93	500	
22066	52434	A	22194	2	398	FFLRRSLALSPRPDCGLQWRNL GSLQAPLPGFTPFSCSLPSSWD YRRPPRPANFLYF**RRGFTLL ARMVSIS*PHDPPASASQSAGIT GVSHRARPETYNFCSFIHSSLPV EPEARKMTKNSDIGEIW
22067	52435	A	22195	972	2180	PRHCCASASSAPAPSRPASSSSP PAACPW*GSLGPAATPATWR R
22068	52436	A	22196	2271	3074	RDPSTPTVVRSLGVPLLSRRRFK MAPSVAATKLAERNETMVQTC WTETQSSSDGSTPRRVRISLAL WRPSLFFSMADTSLVLFNPRVS SSGVIRPSNKRPSLAILTRISRTS SPKYMPLTIFSNSCFPGLRDPRSI SLSNSVRMSSNDPSSPKAPHS/G IDTHPPLVSFHQINVPQFLHVAS IGASADDQADFTVLVVIATGHH GAHCVIHHSYDVGIIVPSLFDGF VKQFDHICSFHSARFKSLCPGD QDGLIYFGLLARKRKRESHR

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22069	52437	A	22197	1956	2747	FAFSPK*HSCLRCPCI*FSSGLLH EVL*LLPLCWP*THGWDPGSRE ANKSPKLHAIRCVWVLEEENL WLSSNSQSLQTVKN*ESHIN*SC RSNLI/HH*FWNQVK*K*LLNIS GNCFFFLRWSL/DSVAQAGVY WRDLGSLQPPPPGFKRFSCLSLP SSWDYWHLPCLAKFCIFSRDG /GFTIWARLVLS*SCDLPASGS QSAGITGVSHHTWLQVITYFLK EMRSCYFSQVGWPQTPGLKQC SHLKLSSWDYRHMSPHLAISG
22070	52438	C	22198	85	228	
22071	52439	A	22199	2	434	
22072	52440	A	22200	1	1356	
22073	52441	A	22201	146	1909	ILHSLEISALLSLMMLTIGDVIK QLIEAHEQGKDIDLNKVKTAKTA AKYGLSAQPRLDIIA/SVPPQY RKVLMPKLKAEPIK\TA/SGIVV VAVMCKPHRCPHISFTGNICVY CP/GVGPDSDFEYSTQSYTG\YE PTSMRS/IFRARYDPFLQTKDRI EQ*RQLGHSVDKVEFIVMGDTF MALPEEYRDYFIRNLHDALSGH TSNNIYEAVKYSERSLTKCIGITI ETRPDYCMKRHLSMDLTYGCT RLEIGVQSVYEDVARDTNRGH TVKAVCESFHLAKDSGFKVVA HMMPDLPNVGLERDIEQ\FTEFF ENPAF\RPDGLK\IYPTLVIRGTG LYELWKS\GRYKSYFS**PGLN WVARFLALVPPWTRVYRVQRD IPMLPVSSGVEHGNLRELALAR NEDLRIQCRDVRTREVGIEIH HKVRPYQVELVRRDYVANGG WETFLSYEDPDQDIL\IGLLR\LR KCSEETFRFELGGGVSVIRELH VYGSVVPVSSRDPTKFQHQQFG MLL\MEEAERIS*RRNMGLGKI AVISGVGTR\NY\GKIGYRLPR PRTMVKMLEIMGHTQSHSFCISI LPWHEHRRIRISLNTQQRGL
22074	52442	A	22202	1	457	
22075	52443	A	22203	2	297	CVMYRDYPLELFMAQCY/GNIS DLGKGRQMPVHYG/CKERHFV TISSPLATQ/IPQAARGPGYGIM/ SIRVDGNDVFVYNATK/EARR RAVAENQPFLIEARPT

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22076	52444	A	22204	3	1446	DWLLAKMAEAIAAAR\VWRLN RGLSHAALLLRQLGGSGD*AR SHPPRQQQCSALDDKP\QFPG ASAGVIDKLEFIQ\PNVISGIPIYR VM\DPQGQIHQPQARDPHLAEG ERWLKL\YKS\MTLL*HPWDRIL **VFSGQGRILLT*TNYWLRR GTHVG\SARRLGQTRTLVFGQY RE\AGVLMYRDYPLELFMAQC YGNISDLGKGRQMPVNYG\CKE RHFVTISSPL\ATQDPSGRWGAA YAATGGANANRVR\VICYFRAR GAAS*GGDAHA\GF\NFRCHNL SCPIFFCRNNGYAISTPTSEQYR GDGIAARGPG\YGIMSIRVDGN DVFAVYNATKEARRRAVAENQ PFSHQAHDSRVQAPSP\SDAS*T YRSVDEVN\YWENKGPILPGF GHYLF SQ\GWWDEEQKAWR KQSRRKDPGPVQPS\VMEAFEQ AERK\PKPNP\NLL\FSDVYQNM PAPVRQPPES\LARHFKTYGNH YPWDHFDK
22077	52445	A	22205	2	292	

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22078	52446	A	22206	1	1894	QSLADLLQSQPSITLTSQIWPSP A*GFWSWGNLSVTTSPSKPATP TRTIAATPIQTL PQSQTAPKRID TPSLEEPSDLEELEQFAKTFKQR RIILGFT\QGDAGLAMVKLYGN DFSPTTIFRFEALNLSFKNMCKL KPLLEKWLND AENLSSDSSLSS PSALNSPGIEGLSRRRKRTSIE TNIRVALEKSFLENQKPTSEEIT MIADQLNMEKEVIRVWFCNRR QKEKRINPPSSGGTSSSPIKAIFP SPTSLVATTPSLVTSSAATTLTV SPVLPLTSAAVTNLSVTASTSEA SSASETSTTQTTSTPLSSPLGTSQ VMVTASGLQTAAAAALQGAA QLPANASLAAMAAAAGLNPSL MAPSQFAAGGALLSLNPGTSLG ALSPALMSNSTLATIQALASGG SLPITSLDATGNLVFANAGGAP NIVTAPLFLNPQNLSLLTSNPPG GFTIEISNNNSTMVMTGMRIQIG TQAIERAPSYIEIFGRMTQLNLS RSRWDFPFRTREEALQADKKLN LFTVRKFQNI RHTLFKCNKNT FQQCLLEQDSSCGTGFCSMTT YPVMLLSSEQPVQSLSVRQCVI LLDAAAVISGGMGAVCLLLTH LCPLCYAGLLSEITDPESFVKDL LYSVP

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22079	52447	A	22207	1	2417	MRVRTSSLPSTMLRVQNYARA KAGPEYAFVDSTECSPQWMVS PLKRGQTQNGLDFQKQPVVVG GAISTAQAQAFGLHGHVQLA GTSLQAAAQSLNVQSKSNEESG DSQQPSQPSQPSVQAAIPQTQ LMLAGGQITGLTLTPAQQQLLL QQAQAQAQLLAAAVQQHSAS QQHSAAGATISASAATPMTQIP LSQPIQIAQDLQQLQQLQQQNL NLQQFVLVHPTTNLQPA/QFIIS QTPQGQQGLLQA/QNLLTQLPR QSQANLLQSQPRITLTSQPATP TCTIAATPIQTL PQSQSTPKRIDT PSLEEP/SDLEELEQFAKTFKQR RIKLGFTQGDVGLAMGKLYGN DFSQTTISRFEALNLSFKNMCK LKPLLEKWLND AENLSSDSSL SPSALNSPGIEGLSRRRKRTSI EA\NIRVALEKSFLEN\QKPTSEE ITMIADQLNMEKG VIRVWFCN RRQKEKRINPPSSGG/TSSSPIKA IFPSPTSLVATTPSPVTSSATTTL TVSPVLPLTSAAVTNLSVTGTS DTTSNNTATVISTAPPASSAVTS PSLSPSPSASASTSEASSASEVTS TTQ\TTSTPLSSPLGTSQVMVTA SGLQTA/AQLLPFKGAAQLPAN\ ASLA\AMAAAAGLNPSLMAPS QFAAGGALLSLNPGTSLGALSP ALMSK\STLAVTIQTLASGGSL K*TSLECKLGTLVICPMREEPPD
22080	52448	A	22208	3	114	
22081	52449	A	22209	1	505	NLGVDLLPGYQDPYSGRTLTK GEVGCFLSHYSIWEEVVARGLA RVLVFEDDVRFESNFRGLRL MEDVEAEKLSWYSYWTLAYA LRLAGARKLLASQPLRRMLPV DEFLPIMFDQHPNEQYKAHFWP RDLVAFSAQPLLAAPTHYAGD AEWLSDTETSSPWDDDSGR
22082	52450	A	22210	3	626	RAARAAPLLHLLLLLPWLEA AGVAESPLPAEVLAILARNAEH SLPHYLGALERLDYPRARMAL WCATDHNVDNTTEMLQEWLA AEGDDYA AAVVWRPEGEPRFYP DEEGPKHWTKERHQFLMELKQ EALTFARNWGADYI/LGATLGL WQDHSVNSLGGCSPGRAGACD VPSSKFADTDNLTNNQTLRL MGQGLPVVAPMLDSQTNV

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22083	52451	A	22211	1	2004	MRAARAAPLLQLLLLLGPWLE AAGVAESPLPAVVLAILARNAE HSLPHYLGALERLDYPRARMA LCLQGPAPQWDLWLAGFEEE QTGTSEVHWGPTWQGSTTLEA SGHRCATDHNVDNTTEMLQE WLAAVGDDYAAAVWRPEGEP RFYPDEEGPKHWTKERHQFLM ELKQEALTFARNWGADYILFA DTDNLTNNQTLRLLMGQGLPE VAPMLDSQTYYSNFWCGITPQ GYRRRTAEYFPTKNRQRRGCL RVPMVHSTFLASLR\AEGADQL AFYPPHPNYTWPFDDIIVFAYA CQAAGVSVHVCNEHRYGYMN VPVKSHQG\LEDERNFIHLILE ALVDGPRMQASAHVTRPS\KRP SKIGF\DEVFVISLG\RRPDRRER MLASLWEMEISGRVVDVDG WMLQQQVPFRNLRP*DLLPGL/ YKDPYFGPHS*PRAEVGLLSSD HYSIW\EEVVSQGAWPR\VLVV *RNDVAPLRTNFQGGGLERL\M E\DVEGKRNLSEKPPFRILPLG R\KQVEPLRRET\AVEGLPG\LV VAG*LPNW\TLA\YALRLAGGP ASLLALQPFAPHCCPVERISLPI HCFDQ\HPNEASTKAHFWRPD\ LVAFSAQ\PLLAAPTHYAG\DAE WILLSRRHHSPWDDDSGRLISW SGSQKTLRSPRLDLTGSSGHS
22084	52452	A	22212	1	468	ELSHNAKAKVMVASHNEDT/V LFALRRMEELGLHPADHQVYF GQLLGMCDQ\SFPLGQAGYPIL TQIHLFSPTCRAAGGEVRCLP ALPRVWALRCGPNLIPAWDSH WKLLGTLELCAQGPHLCDPH VLGPRGLSTFCQGQPTQPEPLG EQWPGWG
22085	52453	A	22213	1	1893	

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22086	52454	A	22214	390	2005	INRDVETACTYILRNTEDVMLE FVMREWKKSRKLLGQRLFNKL MKMTFYGHFVAGEDQESIQL LRHYRAFGVSAILDYGVEEDLS PEEAHEKEMESSAAERDGGSG TNKRDQYQAHRAFGDRRNG VISARTYFYANEAKCDSHMETF LRCIEASGRVSDDGFIKLTAL GRPQFLLQFSEVLAKWRCFFHQ MAVEQQAGLAAMDTKLEVA VLQESVAKLGASRAEIEDWFT AETLGVSGTMDLLDWSSLIDSR TKLSKHF/V*VPNAQTGQLEPLL SRFTEEEELQMTRMLQRMDVL AKKATEMGVRLMVDAEQTYF QPAISRLTLEMQRKFNVEKPLIF NTYQCYLKDAHDNV\TLD\VDL SPREGWCFGAKPVRGAYLAQE RACAAEIGYEDPINPMYEATNT MYHRCLDYVLEELKHNAKAK VMVASHNEDTVRFALRRMEEL GLHPADHQVYFGQLGMCDQI SFPLG\QAGYPVYKYVPYGPVM EVL PYLS\RRALE\NSSL MKGTH \RER\QLLWLELLRRLRTGNLFH
22087	52455	A	22215	3	303	
22088	52456	A	22216	798	2250	VPRAPQGML*GPRKDAGTPER RAGPPGGRGTADGGGCGALAG SGS/DDPRLCIWTF LVT DQ LLLP TGPRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLPQ VLPHRRLEVSLGKSPKECVLW/ RHLLSESEKRPFVEEAERLRVQ HKKDHPDYKYQPRRRKSAKAG HSDSDSGAELGPHPGGGAVYK AEAGLGDGHHHGDHTGQTHGP PTPLTTPKTELQQAGAKPELKL EGRRPVDSGRQNIDFSNVDISEL SSEVMGTMDAFDVHEFDQYLP LGGPAPPEPGQAYGGAYFHAG ASPVWAHKSAPSASPTETGP PRPHIKTEQSPGHYGDQPRGSP DYGSCSGQSSATPAAPAGPFAG SQGDYGDLQASSYYGAYPGYA PGLYQYPCFHSRRPYASPLLN GLALPPAHSPTSHWDQPRRNGS TAQGPKEGVAGALQGAVRSKA GLGAEKPLHSRPHSLDNGCTGC PGSGVSVRRLG

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22089	52457	A	22217	299	1631	LLEPHCGGKCFKRHWFPSCSEA SC\PSAAPQRW*HTG/SPEVPAA PGAQGREPSM/RDGEGAVRGGS CMEAGPMGLQCVDKHKHGVH N/RGEARVFLQSQVGAILPRPW PNPAPSEP/VQSPLASSTGP*VFP SRPGQQASGPA/RRHPGAEPGQ RGDAVQLLPRPQTSPHGPQDA ALSSAPHPWRQL/MASPLQEA PLHPFCGHRSPCPVPWQLSPTD PIQSRPPARGWAPANQGRPSHP RCRGGGGAFCGHGF/SYTQPLT FRLASMVLSIHPKPPKETLRFPR NMVVAAEPGVPAMSQRRPRGC TRFSHTDKAPLDTCTDMNAYT CARRHSSTYSDHITLQGAFAC HTWAQSTCQPPPTPAKCLDR GQSSGMLHAGCVGWGGGTHV RVDLSSQLNRRVRPHLCMLRC WSSCHRASVSCTHPSLHTTGPV LISARTGADHTWYTAGTY
22090	52458	A	22218	383	762	RHQGNQKRKELSLK/CQKSRQE SPRAEENPKWREGKKETSESSV QKAGRAAAAQAGAAASRVPG LSGSNLAPCNKGRLSAREDVSN SKLKILSSGRKHTEHVIMLKAW GLGRQSLRCRLFDLIPSHKV
22091	52459	A	22219	325	945	QPSPLAPKADLSAREGRFQLKV RCRLQQYQQQR\RKFAAAFLA FHFSLLGSCGILAEAGKKEKPE KK\VKKSDCGRIGSWVCVAPP SGDCGLGHHGRATRT*\AECKQ \TMKTQRCKIPCNWEGRQFGRG SAKLPSFQAWGECDLDT\ALKT KTSGLKRALHKSPNAQKTVTIS/ KSPCGKLTQPQLQAES\KKKK KEGKKPEGRLRD

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22092	52460	A	22220	1	1908	MKYIQDFQREKQEFERNLARFR EDHPDLIQNAKKSDIPEKPKTPQ QLWYTHEKKVYLKVRPDATTK EVKDSLKGQWSQLSDKKRLK WIHKALEQRKEYEIMRDYIQK HPELNISEEGITKSTLTKAERQL KDKFDGRPTKPPPNYSYLYCAE LMANMKDVPSTERMVLCSQQ WKLLSQKEKDAYHKKCDQKK KDYEVELLRFLESLPEEEQQRV LGEEKMLNINKKQATSPASKKP AQEGGKGGSEKPKRPVSAMFIF SEEKRRQLQEERPELSESELTRL LARMWNDLSEKKAKYKARE AALKAQSERKPGGEREERGKLP ESPKRAEEIWQQSVIGDYLARF KNDRVKALKAMEMTWNME KKEKLMWIKKAAEDQKRYERE LSEMRAPPAATNSSKKMKFQG EPKKPPMNGYQKFSQELLSNGE LNHLPLKERMVEIGSRWQRISQ SQKEHYKKLAEEQKQYKVHL DLWVKSLSPQDRAAYKEYISN KRKSMTKLRGPNPKSSRTTLQS KSESEEDDEDEDEDEDEDEEEE DDENGDSSEDGGDSSESSEDE SEDGD/EGGADRAQWEGRGVL PGGPPGDSTSFLTPQNEEDED EDDDEDDDEDEDNESEGSSSSS SSSGDSSDSDSN
22093	52461	A	22221	129	2365	
22094	52462	A	22222	5	2730	PSLRFAISGFVWRLAAPASAAA ELRLDCSARRAPRCRPPALPSTR SAEGAVLCAFRREEQQAATA AAAAAAATAAAAAAPAPPPRP EEEPLPPREGAAAVPGRAGEGA ATQSQGGSRWSGKPGGRAAPA RPRRWLDSWRMNGEADCPTDL EMAAPKGQDRWSQEDMLTLLE CMKNNLPSNDSSKFKTTESHM DWEKVAFKDFSGDMCKLKWV EISNEVRKFRTLTELILDAQ*HF KNPYKG\KKLKKHPDFPK
22095	52463	A	22223	1	446	RPSPTSSM/PGLWGYSRPCSSG VPASALQA*SPAFSPASQRPPTT SWWEVP*EEGRA\PVWEGRIRA VGPAPAS*PSDLPWSCRWRE TRG\SPAEDAMLLRAVEPLEGC QRPLLDSEPP/SPARTSAPAASA SPPAPGGPPCLARPLPR

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22096	52464	A	22224	582	1175	THTHVPAGTHPHTQTTSHSHLI GRALTVPESPKCPCLLPSAC*PR PGRAQPAGPAWSKKEASNPGS E/PPQHSL*RRMAPPE\VPARA VHTCRCLSSAPPGARLPLDPER RAPQSPRSPPPSAQPPPPPPPP PPPGRRGPSQSWRPSPPPPRTR SRSPRRSRVRGPRAPALAAPPP GARPGCAAACGSPTGCS
22097	52465	A	22225	609	5241	GPQTTWCGRPTMCQHCGPAVS SWKQPSHDPCCRGGENRRQPG TPARATQGRLLRRRPEGARVPSA RRGRPRARWRDKERNNTCVA ML*QVTNSTANAPQNNPEVDS IMAEKVEAPASVDWQKRCLT LETQLFRFRLQASKIRELLADK GHGTYISPFSLAKQMQUELEQRL LEAEQRAENAETQVGVMEEEKV KLSNLKNVDSEGLHRKYQELL KAIKGKDELISQLEAQLEKQKQ MRAEEAKTVQEKAQKKEW
22098	52466	A	22226	2	205	
22099	52467	A	22227	1	6186	
22100	52468	A	22228	96	1584	DLGSGITASPPRPEPEHPVFPPA PHTPSKMGKEKTHINIV\IGHV \DSGKSTTTGHLIYKCGGIDKRT IEKFEKEAAEMGKGSFKYAWV LDKLKAEREPG\TIDISLWKFE\ TTKYYITHD\APGHRDFIKNMIT G\TSQADCAVLIVAAGVGEFEA GISKNGQTREHALLAYTLGVK QLIVGVNKM DSTEPAYSEKRY DEIVKEVSAYIKKIGYNPATVPF VPISGWHGANMLEPSNMPWF KGWKVERKEGNASGVSLLA\ LDTILPPTRPDKPLRLPLQD\ YK\GGIGTVPVGRVETGILRPG MVVTFAPVNITTEVKSVEMHH EALSEALPGDNVGFNVKNVSV KDIRRGNVCGDSKSDPPQEAAQ FTSQVILNHPGQISAGYSPVIDC HTAHIAKFAELKEKIDRRSTK KLEDNPKSLKSGDAAIVEMVPG KPMCVESFS\Q*PVIG/RTPVRD MRQTAA\VGVIKNVQKKSVA GKVTKSAQKAQKAGK
22101	52469	A	22229	1	1023	
22102	52470	A	22230	1	396	
22103	52471	A	22231	2	1259	
22104	52472	A	22232	1	2514	

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22105	52473	A	22233	3	2027	EESDCLTEYEEDAGPDCSRDEG GSPEGASPSTASEMDVSLHFVL WGCLHVYQRMIDKAEDVCLFV AQPGEVLVGQLAVLTGEPLIFTL RAQRDCTFLRISKSDFYEYDSP KLECGWHSEDPNPWTSPSTGL NPLFLELCRHMVFQRLGQGDY VFRPGQPDASIYVVQDGLLELC LPGPDGKECVVKEVVPGDSVN SLLSILDVITGHQHPQRTVSARA ARDSTVLRRLPVEAFSAVFTKSA RTITGCVWRYVRASASYCPYLP PLCDPKDGHLLVDGCVNNVP GSLWRYVRASMTRRATCPRCA TPRTGTYSWMAATSTICQASGR PHHPHTQAPPAPHTRTRRTSPA AWVPKRSSPLTWGARMRTSA PTGTACPAGGCCGSG*IPGLTR* RFQTLWKSSPAWPTCPVCGS*R LSSPAPTASTCARPSTASRPWTL GSSTRSILRTTRRMSTAVTTTAT PAPIITPST*GTNGTGCAPIRPA EPSPGARTSWNPSSLATFAPEEF VASP*LDVPICRMGQCCSLPGG ATLP*GPCGPQCMPGNVPPER TAARYRQTTAYQTPACPTPPRG QRPT/CVPTVSSLQAGLQGGPRS DFDMAYERGRISVSLQEEASGG SLAAPAREPREQPAGACEYSYC EDESATGGCPFGPYQGRQTSSIF EAAKQELAKLMRIE

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22106	52474	A	22234	281	1832	NDSGLPDRPSSWNQPMEAPLQ TGMVLGVMIGAGVAVVVTA V LILLVVRRLRVPKTPAPDGPRY RFRKRDKVLFYGRKIMRKVSQS TSSLVDTSVSATSRPRMRKKLK MLNIAKKILRIQKETPTLQRKEP PPAVLEADLTEGDLANSHLPSE VLYMLKNVRVLGHFEKPLFLE LCRHMVFQRLG/QGDYVFRPG QPDASIYVVQDGLLELCLPGPD GKECVVKEVVPGD\SVNSLLSIL DVITGHQHPQRTVSARAARDST VLRLPVEAFSAVFTKYPESLVR VVQPGPPSGPAPYPAPSYGHAP RALQIIMVRLQRVTFLALHNYL GLTNELFSHEIQPLRFPSPGLPT RTSPVRGSKRMVSTSATDEPRE TPGRPPDPTGAPLPGPTGLQGG PRSDFDMAYERGRISVSLQEEA SGGSLAAPAREPREQAGACEY SYCEDESATGGCPFGPYQGRQT SSIFEAAKQELAKLMRIEDPSLL NSRVLLHHAKAGTIIARQGDQ MEEVKVPFAFVIVD
22107	52475	A	22235	50	4287	PGRKSPGAEDRALWGPACRLL TDSGLPDRPSSWNQPMEAPLQT GMVLGVMIGAGVAVVVTA V LLLVVRRLRVPKTPAPDGPRYRF RKRDVLFYGRKIMRKVSQSTS SLVDTSVSATSRPRMRKKLKM LNIACKILRIQKETPTLQRKEPP PAVLEADLTEGDLANSHLPSEV LYMLKNVRVLGHFEKPLFLELC RHMVFQRLGQGDYVFRPGQPD A\SIYVVQDGLLELCLPGPDGKE CVVKEVVPGD\SVNS
22108	52476	A	22236	283	403	TCLSLVSGCGHCEKMNSEENW *IPIQWASSNPGRRRKNIR
22109	52477	A	22237	33	222	NGPMACFVKQLEIPQYGYRNNV PTTTPRSNLAKELEKYSKTSFEY TINDNHTYGGGLGCMRPLV
22110	52478	B	22238	1	1860	
22111	52479	A	22239	303	672	GITACVFFSMAEGRTRAERSCD SK*AIGAPAE*GGASPGKSP EL WQGAGYSPLGACGHKARLWIP WRRSWSGEKGARGCRGTGKK LGHQGWRETGPRPGGAGPA GFPDPVVMGCEKEASRV
22112	52480	A	22240	1	1377	

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22113	52481	A	22241	1	2232	MQDTEKDDNNNDEYDNYDEL VAKSLLNLGKIAEDAAYRARTE SEMNSNTSNSLEDDSDKNENLG RKSESLDLSDSVVRETVDSLK LLAQGHGVVLSNMNDNRNYA DSMSQQDSRNMNYVMLGKPM NNGLMEKMVEESDEEVCLSSL ECLRNQCFDLARKLSETNPQER NPQQNMNIRQHVRPEEDFPGR PDRNYSMDMLNLMRLEEQLSPRS RVFASCAKEDGCHERDDDTTS VNSDRSEEVFDMTKGNLTLL KAIALETERAKAMREKMAMEA GRRDNMRSYEDQSPRQLPGED RKPKSSDSHVKKPYYGKDP SRT EKKEKSCPTPGCDGTGHV TGL YPHHRSLSGCPHKDRVP PEILA MHESVLKCP TPGCTGRGHVNS NRNSHRR DIQVFNLQKQEMIDR LESLSGCPAAAAEKLAKA QEKH QSCDVSKSSQASDR VLRPMCFCV KQLEIPQY GYRNNVPTTTPRSN LAKELEKYSKTSFEYNS YDNHT YGKRAIAPKVQ TRDISPKGYDD ANGYCK DPSPSSSTSSYAPSS SNLSCGGGSSASSTCSK SSFDYT HDMEA AHMAATAILNLSTR CR EMPQNLSTK PQDLCA TRNPDM EVDENG TLDL SMNKQRPRDSC CPILTPLEPMSP QQQAVMNNRC FQLGEGDCWDL PVDYTKMKPR VRIDEDESKDIT PEDLDPFQEALE
22114	52482	A	22242	727	4372	LWACVLPGVTLPPFLGEKTSCK MEVDTEEKRRHTRSKGVRVPV EPAIQELFSCPTPGCDGSGHVSG KYARHRSVYGCPLAKKRKTQD KQPQEPAPKRKPF AVKADSSSV DECDDSDGT EDMDEKEEDEGE EYSEDNDEPGDEDEE DEEGDRE EEEEEIEE DEDDDEDGEDVEDE EEEEEEEEEEEEEE NEDHQMNC HNTRIMQD TDLDDNNNDEY DNYDELVAKSLLNLGKIAEDA AYRARTESEMNSNTSNS

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22115	52483	A	22243	34	1558	PASEEFNSLHGRTPRRDLECRN QQSTTEERRRHDCVQQASEHN EGKWDFAFSAQSQPKP*KPFDV PC*DSRPACP*EHTAGTSGSTSS ETCFFQSSEWPYGELGAYNIFT GPKSTLSSLVTGVSNSSSL*LP SPKNTITNWFHTRDHSSYSEIHS KACANP*APSQPSR*ASW\IATG SFRRAGLAT*PCCTGSKLLPAW VLANHRWDRTRDGIQKQGNSE *PSSPGTRAFEGNSSSPAPAASIT SMLSPSFTPTSVIRKMYESKEKS KEEPASGKAALGDSKEDTQKA SEENLLSSSSVPSADRDFSHY KFQTVRHYRGSSCS\PHLSQQQP FTPKEQDYSDLKGNWGRKNTH FGHSPVSLQHFFFRPVPPSSPLSP MVPNG*GLLTKLHPGFGTEDA GPGSTSTASSKFAPNWCASSWD GLESFTGNIWPHPGSALLPFN*S LVHPLLNPRPGNTSASGNGATA ANSAQ\SCILQALVSHGSSCSAF QDNPSETCPAGQACPHALP
22116	52484	A	22244	1502	2657	EGKVPLAFIVLTSLN\AVMSPSF FSCRLLVTALKVSSRCSAMKGV EFFTCWSTFKPFRPASTSSTEST TPECELSLSFSLFAERLERRGFK STLAFCSISKISTLFSAWSSNGIG AK*FPEFCPGDRMACSRPASLSS SSCG/S*PKTAGSAS*SARVREPP TEPTGRD*PFSQ\TSSII\EA KHGT LSRLKNSLKS\KSPGDCSGKTAS LGTS*SAAGSCARMTSTSSSSAT PPLHSTIPSFTEAVRRLVLFPLP* SSSSILSSKPVSSMVSD*LVGPA ENHSGSSSV*ESFLLRSPKTRLL SPNSLLKRLSLKSLSRSLSLKSR RSLSL\SGDPSQRSGQRLSSHQ SYVHQADEAHHYLSLMDFLSA GS*QRLSRGSPLQSSVSEG
22117	52485	A	22245	324	391	
22118	52486	A	22246	42	274	

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22119	52487	A	22247	1	835	MCAGNLCWEERWAVDEKEA TDKKPHVGGFGQGAPAPA AAMSGRSVRAVTRSRF*DDIKK VMAAIEKVRKWEKKWVTVD TSLRIFKWVPVTDSEKEKSKS NSSAAREPNGFPSDASANSLL LEFQDENS\NQS\SVSDVYQLKV DSSTNSSPKPKQSESLSPAHTS DFRTD\DSQPPTLGQGDPRSP LP\SSEVADEPPTLTGRTSFHL ETQVVEE\EEDSGAPPLKRFV DQPTVPQTGSEKLAPSRPSAFW ALPLFIWFVWPRRVCWG
22120	52488	A	22248	3	244	
22121	52489	B	22249	271	711	
22122	52490	B	22250	73	200	
22123	52491	A	22251	885	975	GSTWWPAD*AQL*LHLPTRCM AECWEIPA
22124	52492	A	22252	102	909	PGGRHGRQNDFAAPGGRLEARI HGTVSAPLYHRVLCRLGSRPA SAAGPAARGGDLAPGEHSFCE DGNARVESVDRSAINRAMQN PRKSTASVCWTFTASDLPAQGV \PRTSSTRTLREDPFPPSAEKWL RAVLHHFVNEKLQQIFIELTLKP SRRSMGRHPLDSNPVLQQQGR CDLIENKLSPPGIMSVLDDVCP CTPRAGEQTRHCCRTAGGCGD PRAFQQLERRFVIHHYAGKTHR PLPGLTPTGNSTNARNIVMDTQ QRTGNN
22125	52493	A	22253	48	112	
22126	52494	A	22254	1243	1615	YSPSSWFSNLYQPSTGALSSSET PKDMPMKSLREVRSQSHTSTL SRRSTSPGFRNLTKVSFHTGFSV AFTVRVFCFVRFRGSGMSFSFT* GSRPLGSIGIRLRASPTVTWISS AVGARISSC

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22127	52495	A	22255	468	1431	SVSTTRSFSVDSSAKTAAMPVT VTRTTHHNHPDVIFGAWGPP*S WGPLWALTQPLGLL\RLQL\V STCVAFSLVASVGAWTGSMGN WSMFTWCFCFSVTLIILIVELCG APGPFPPWSWR\NFP\TFACYA ALFCLSASIIYPTTYVQFLSHGR\ SRDHAIAATFFSCIACGCYATE VAWTRARPGEITGYMATVPGL LKVLETFVACIIFAFISDPNLYQ H\QPALEWCVAVYAICFILAAIA ILLNLGECTNVLPPIFPSFLSALA \FCLSSMPPLFSGPSTSSMRSM AASLGAREM*AAAAGMPTTW VPGTADWLRPS
22128	52496	A	22256	98	414	CTRVSAEKTSVCLFGLYWESL SISSSCSSAKWPFTIRSASST RHLSCRRFLK**CFSLINSHSRP GVATTISGRRFSILCCFCVDIPPT KIAVLIPVNLAT
22129	52497	A	22257	2	224	
22130	52498	A	22258	2	115	
22131	52499	A	22259	2	118	
22132	52500	A	22260	472	648	GPGGRSFTVWWNW*RRMAQC P\PAEGVQRPECLGPHRAVPAP AHVGLHQEPSRLPALH
22133	52501	A	22261	540	1893	GRCATPRPRWRGHQCDPPPGD VCVAWREMLRNKKRRR\DLG NLIK\RFLTAPNSLPD/AVVLTTE EAVIFWCNVLAQQIFGL/PLEM MNEQPLEGAVREKALHTMREQ TQRMEGLVKQL/LTLSKIEAAPT HLLNEKVDVPM/MLRVVEREA QTLVYNVNHTPEGTHITVRW QRVPHGAEFSVEE*SEGWPVPV PKPHRAVVGANAHISFCPPQEL SKRFTAIRKTKGDGNCFYRALG YSYLESLLPDAFQPLLPQAWV SPGESQGAGIRDPLWPVPVPKP HRAVVGANAHISFCPPQELSKR FTAIRKTKGDGNCFYRALGY LESLLPDAFQPLLPQAWVSPG ESQGAGTRDPLWLWLFRLWLL RLLCLLLLLLGETAQSRLALTW GRHKQGRLARLSGILGFLALRK QWLGQQVAQLLLQNLHLLLR WAGLGVIVFQVSNQPAWERTG
22134	52502	A	22262	1	1772	
22135	52503	A	22263	107	294	LHLLSFGYLTHQLLCHLKWDS HTLHSHHTIAR*AGCSEATWS PPRRLRAPRSRALCSGFR

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22136	52504	A	22264	1	474	
22137	52505	A	22265	1	148	VKYHEFTCSFKKQITVPEDARL LK*DVRGRPSRLFLADPPPHPT VNREY
22138	52506	A	22266	509	2755	YQSQSFDEDEMNQVTDWVDPS FDDFLECSGVSTITATSLGVNN SSHRRKNGPSTL\ESSRFPARK\R GNLSSLEQIYGLENSKEYLSENE PWVDKYKP\ETQHELAVHKKKI E\EVETWLKAQVLGRQPKQGG SILLITGPPGCGKTTTLKILSKEH GIQVQEWINPVLPDFQKDDFKG MFNTESSFHMFPYQSQIAVFKE FLLRATKYNKLQMLGDDLRTD KKIILVEDLPNQFYRDSHTLHE VLRKYVRIGRCPLIFIISDSLSD NNQRLLPKEIQEWSISNIRFN PWAPTMMKFLNRIVTIEANKN GGKITVPDKTSLELLCQGCSGDI RSAINSLQFSSSKGENNLRPRKK GMSLKSDAVLSKSKRRKKPDR VFENQEVQAIGGKDVSLFLFRA LGKILYCKRASLTELDSPRLPSH LSEYERDTLLVEPEEVVEMSHM PGDLFNLYLHQNYIDFFMEIDDI VRASEFLSFADILSGDWNTRSL LREYSTSIATRGVMHSNKARGY AHCQGGGSSFRPLHKPQWFLIN KKYRENCLAALKALFPDFCLPAL CRQTQLLPYLALLTIPMRKSSFR FSFYSKDIGEGLPSGRRTLWGRI GKWEGPGLDRGTWDD*TPDSG DEA\QLNG\GHSAAESLGEPTQA TVPETWSLPLSQNSASELPASQP QPFSAQGDMEENI\EDYESDG DIEASLLIRLLLHSFHFCHFSGT
22139	52507	A	22267	2	161	
22140	52508	A	22268	1	599	VTRLFFQPGYGTLPQQRLLMPK KNR\IAIYE\LLFK\EGVMVPKK\ DVPIPKHPELA\DRNVPNLHVM KPMQ\SLKS\RGYVK\EQFAWR HFIYWYLT\K*GYQGVSISSRDYL \HLPP\EIVPCHPYGRSPSRRLAR PSG*KVLEG*ANLRGLHKNGEA DKRLPTRRECLCHPGA\DKKAE AG\ALGSSNPNFQFRGGFGRGR GQ\PPQ

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22141	52509	A	22269	1	345	KHPELADKNVPNLHVMKAMQ SLKSRGYVKE\DYLLHLPPEIVPA TLRRSRPETG/RPRPKGLEGERP ARLTRGEADRDTYRRSAVPPG ADKKAEGAGSATEFQFRGGF GRGRGQPPQ
22142	52510	A	22270	2	161	
22143	52511	A	22271	2	641	RRPQHRACSFSPGTGPCSRRR CLMPKKNR\IAIYE\LLFKEG\VM VAKKDVHMP\KHPE\AD\KNG APTFHVMKGHAGLSKSPRATV KGTSFAWGDIFYWYL\TN*GY QGVSISSRDYLLSSCPREICCLAT ATARSPSKRLGKAFGLKRSWE GLRRPGEDFTRGGKFDRGYLT GRIAVATLVADKKAEG/ALGS SNPNFQFRGGFGRGRGQPPQ
22144	52512	A	22272	1	1693	MFNSVPVQNEGDSFNFEKVKA EFRPGTQTQEYIKGMEDSASEV TVNREVTTDNPYTISVTNKLS AIRIKMFMPR\AYELKVTVIKM AFELSTRCSKRLM/DGSFETVLT DVIEGKTMSGYDRSRRVNLPNF NNQVIFRVVRKTPDSNDSNVV DAIQVRSYAEVIDAKFRYPLTG LLFVEFDSKMFPNQLPTISIRKR WKIVNVPSNYDPESRTYNGNW DGTFKKAWTNPAWVLYDLM INQRYGLDQKELGISVDK WAL YEAAQYCDQM\LTAKAARNL ATFVT/CHIQSQTDAPREPAYIFT NDNVVNGDFSYS\TQARRACTR RAT*CLMMSKTCINRTLSQYSI/ V/EGHSTVR\NNVTSITAIG\AHV EA/KANRRGRWILKTNLSTTV NFATGLEGMIPTIGDVVAISDNF WSSNLTMNLSGRLLLEVSGSQIF LPFRVDARAGDFIIVNKPDKGP VKRTISSVSADGKTIEINIGFGFP VKPNTVFAIDRTDLALQQYVVT KIDKGDDDEFT\SKSRRWSTIL ISTMKLITGLTSTTDRQASLSQI R/CPKPENVK\CPQSRESSRG

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22145	52513	A	22273	1	1843	MEDNLISINKIKILLSVSDGEIDE TFSLKQLMFNSVPVQNEGDSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPYTISVT NKTLSAIRIKMFMPRAAYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVDAIQVRSYAEVIDAKFRY PLTVLLFVEFDSKMFPNQLPTIS IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKAWTNNPAWVLY DLMINQRYGLDQKELGISVDK WALYEAQYCDQMVLTA ARNLATFVT/CIISQTDAYKVV RDICSIFRGMSFWNGPREPAYIF TNDNVVNGDFSYSQARRACT RRAT*CLMMSKTCINRTLSQYS I/V/EGHSTVR\NNVTSITAIGAH VEA/KANRRGRWILKTNLRSTT VNFATGLEGMIPTIGDVVAISD NFWSSNLTMNLSGRLLLEVSGSQ IFLPFRVDARAGDFIIVNKPDKG PVKRTISSVSADGKTIEINIGFGF PVKPNTVFAIDRTDLALQQYVV TKIDKGDDDEEFT\SKSRRWSTI LISTMKLITGLTSTTDQRASLSQ IR/CPKPENVK\CPQSRESSRG
22146	52514	B	22274	1	1452	

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22147	52515	A	22275	1	1902	MIQKVISGSKGGSQKPHNPVEM EDNLISFNKIKILLAVSDGEIDET FSLKQLMFNSVPVQNEGDSFNF EGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPTISVT NKTLSAIRIKMFMPRA\AYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVDAIQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS IRKRWKNVNAPSNDPESRTY NGNWDGTFKKAWTNNPAWVL YDLMINQRYGLDQKELGFSVD KWALYEAAYCDQMVLTAK AARNLATFVT/CIIQSQTDAPRE PAYIFTNDNVVNGDFSYS\TQA RRACTRRAT*CLMMSKTCINRT LSQYSI/V/EGHSTVR\NNVTSIT AIG\AHVEA/KANRRGRWILKT NLRSTTVNFATGLEGMPTIGD VVAISDNFWSSNLTMNLSGRLL EVSGSQIFLPFRVDARAGDFIIV NKPDGKPVKRTISSVSADGKTI EINIGFGFPVKPNTVFAIDRTDL ALQQYVVTKIDKGDDDEEFTS KSRRWSTILISTMKLITGLTSTT DRQASEVKPVNFTSSRHQAQPE VGLIPPLWPQKGIIAQTSKSS
22148	52516	A	22276	1	675	
22149	52517	A	22277	155	700	SGVLVGHALTARQPSSGRRLV VDHSANRRGRWILKTNLCSTT VNFATGLEGMPTIGD/GDFIIVN KPDGKPVKRTISSVSADGKTIEI NIGFGFPVKPNTVFAIDRTDLAL QQYVVTKIDKGDDDEEFTASKS RRWSTILISTMKLITGLTSTTDR QASLSQIR/CPKPENVK\CPQSRE SSRG

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22150	52518	A	22278	1	1871	MEDNLISINKIKILLAVSDGEIDE TFSLKQLMFNSVPVQNEGDSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPYTISVT NKTLSAIRIKMFMPR\AYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRV NLPNFNNQVIFRVVRKTPDSND SNVVDAIQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS\ IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKAWTNNPAWVLY DLMINQRYGLDQKELGISVDK WALYEAQYCDQMVLTAKA ARNLATFVT/CIQSQTDAYKVV RDICSIFRGMSFWNGESISVIID RPREPAYIFTNDNVVNGDFSYT\ SQARRACTRRAT*CLMMSKTCI NRTLSQYSI/V/EGHSTVR\NNVT SITAIG\AHVEARPTDCGRWILK TNLRSTTVNFATGLEMIPTIGD VVAISDNFWSSNLTMNLSGRLQ EVSGSQIFLPFRVDARAGDFNIV NKPDAPVKRTISSVSADGKTI EINIGFGFPVKPNTVFAIDRTDL ALQQYVVTKIDKGDDDEEFTS KSRRWSTILISTMKLITGLTSTT DRQASLSQIR/CPKPENVK\CPQS RESSRG

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22151	52519	A	22279	3307	5305	CRSSQNTQETSPDRALLVNLRP SQGPLLALWVPAEGVGGKGHC LPPRSFFRMDNQLVPAVSDGEI DETFSLKQLMFNSVPVQNEGGS FNFEGVKAEFRPGTQTQEYIKG MEDSSSEVTNREVTNDNPTYI SVTNKTLSAIRIKMFMPRA\AYEL KVTVIKMAFELSTRCSKRLM/D GSFETVLTDVIEGKTMSGYDRS RRVNLPNFNNQVIFRVVRKTPD SNDSNVVDIAQVRSYAEVIDAK FRYPLTGLLFVEFDSKMFPNQL PTISIRKRWKIVNVP SNYDPESR TYNGNWDGTFKKAWTNNPAW VLYDLMINQRYGLDQKELGISV DKWALYEAQYCDQM\VLTA KAARNLATFVT/CIIQSQTDAYK VVRDICSIFRGMSFWNGESISVII DRPREPAYIFTNDNVVNGDFS TSQARRACTRRAT*CLMMSKT CINRTLSQYSI/V/EGHSTVR\NN VTS\TAIG\AHVEA/KANRRGRW ILKTNLRSTTVNFATGLEMIPT IGDVVAISDNFWSSNLT MNLSG RLLEVSGSQIFLPFRVDARAGD FIIVNKPDGKPVKRTISSVSADG KTIEINIGFGFPVKPNTVFAIDRT DLALQQYVVTKIDKGDDDEEF TSKSRRWSTILISTMKLITGLTS TTDRQASLSQIR/CPKPENVK\CP QSRESSRG
22152	52520	A	22280	3	412	PAAVA*VKTEPETPGPSCLSQE GQTA\VKTEESSELGNYVIKIDH LETIQQLLTAVVKKIPLITAK\W QRAMTMRKVLQEILEKNPRFH HLTPLKTKHIAHWCRCHGYTPP DPESLRNDGDSIEDVLTQIDSEP
22153	52521	A	22281	2	513	IFACWKGQAWPACCNSLRGQA VKG NQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LE/QRAKREPENEEVDILSLSE PVKINIKKEQEEKQEEVKFYLP TPGSEFIGDVTQKRLEEV DSTFG DDL VQGFSGGISRRYGEKPGVQ DLEVEPDSVTEMLQFYD

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22154	52522	A	22282	1	1197	MAWPCISRLCCLARRWNQLDR SDVAVPLTLHGYSDDLSEEPGT GGAASRRGQPPAGARDSGRDV PLTQYQRDFGLWTPAGPKDPP PGRGPGAGGRRGKSSAQSSAPP APGARGVYVLPDADAAAAV TTSYRYGLGRDRNESPPCGGRT RRPGARGMGWAAERRRLEPGS HATSELPAASEVTPVWSVGTA GGAFAAPCPETVLEHPRAGSAP LPSQPPSWGQPSEWPAFSRVGT GLPLTPTAGPSRARGARRPCPP ALPGHCLLDRTYTGLQTLGAET LLAVVNSAAMNVGVQVVDVE LHRHSLGEDCIYPQSSESDISDA PPSLPLTIPAPVKASSPIKQSHEP VPDTSVEKGS\PGSCPFHL*GPL SHLGSSPGFLLWRPPGLSSVA
22155	52523	A	22283	131	677	PSSLS/CDIFLRSPISTPSPSPLPRT PTSTPVHVKQGTAGSVINNPYV IMDKQPGQVIGATTPTSGPTN KISTASQISQGTGSPVPKIHGSSF VTSTVKVIKQEPGEAPHVPAT GAASQSPLPQYVTVKGGHMA VSPQKQVITPGEQIAQSAKVQP SKVL/GQIG*CLPTLARADLLYS
22156	52524	A	22284	3	5128	LLKIHSSQSSPQQAVALTIPSQK PLSVNTSGGVQTILMPVNVKVVQ SFSTSKPPAILPVAAPTVPVPS APAAVAKGEDASCFSKSVESQ YYGWNIGKRRAAEWQRAMTM RKVLQEILEKNPRFHHLTPLKT KHIAHWCRCHGYTPDPESLRN DGDSIEDVLTQIDSEPDHGLG DGKSSSVGPTAVVTLACHLEC PSSFSSADNLCKLEDLQQFQK REPENEEVDILSLSEPVKINIKK EQEEKQEEVKFY
22157	52525	A	22285	112	651	GGLCTMARTKADWPANRTGG KAP\RKQLAYKKPASQECGPLT GGVKKPHRYR\PGTVGGSVKFR R\YQKSTELLIRKLPFQ/RRLVR EIAQGL*NKILRFQSAAG\ALQE GKWRPNLVWPFLKDTNLVC*S MAKRVTHAKKTFQLAPPHTVE NRALRIHSWMGKHFIQKKKK NFSSSCYW
22158	52526	A	22286	1	339	

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22159	52527	A	22287	2	1369	EPAPPARRSLSAAAAASGTTVD TASHSLVFSQQ\LMQREIGFRV NCTVAM*DVYFKAHRAVLAAF SNYFKMIFIHQ TSECIKIQPTDIQ PDIFSYLLHIMYTGKGPKQIVD HSRLEEGIRFLHADYLSHIATE MNQVFSPETVQSSNLYGIQISTT QKTVVKQGLEVKEAPSSNSGN RAAVQGDLPQLQLSLAIGLDDG TADQQRACPATQALEEHQKPP VSIKQERC DPESVISQSHSPSPSE VTGPTFTENSVKIHLCHYCGER FDSRSNLRQHLHTHVSGSLPFG VPASILESN DLGEVHPLNENSE ALECRRLSSFIVKENEQQPDHT NRGTTEPLQISQVSLISKDTEPV ELNCNFSFSRKRKMSCTICGHK FPRKSQ LLEHMYTHKGKSYRY NRCQRFGNALAQRFQPYCDSW SDVSLKSSRLSQEHLDLPCALES ELTQENVDTILVE
22160	52528	A	22288	363	947	STARRGKSRSRPAVALQRQPSA ASRSPSSRRRRGVSKSVPLA RTKQTARKSTN\GK\APRKQLA YKKPARKSA\ PSTGGVKKPHRY RPGYCGRSVKFRR\YQKSH*DF* FRKL PFQAVVWRENLLKDF*K QILRF\QSRSYRVALQGGQVEA LSGVGLF*KTTNLLC*SMPKRV NNYCQKDIPAKHARIPWRTVL
22161	52529	A	22289	1	92	
22162	52530	C	22290	10	198	
22163	52531	B	22291	74	205	

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22164	52532	A	22292	2	1914	RGHCEPSRAAPSRADRHPSAL ARDPGRRRGPAGQAAPQPMEP ENIVANTVLLKAREGGGNNRK GKSKKWRQMLQFPHISQCEEL RLSLERDYHSLCERQPIGR\LF* EFCATRPELSRCIAFQDGMAY EATPDEKRRKACGRRLMQNFL\S HTGPDLIPEVPRQLVTNCTQRL EQGPCKELSQELTRVTHEYLSV APFADYLDYFNRFL\QGKGLE REAITKNTLRQYRVLGKGGFG EVCACQVRATGKMYACKKLE KKRIKKRKGEA\MSLNEKQILE KVN\SRFVVSLAYG\YETKD\AL CLVLTLMNGGDLKFHIYHMGQ AGFPEARAVFYAAEICCG\AEDL HRERIVYRDLKPENILLDDHGH RISDLGLAVHVPEGQTIKGRVG \TVGYMAPECLKNERYTFSPDW WALGCLLYEMIAGQSPFQQRK KKIKRE\EVERLVKEVPPEYSER FSPQARSLCSQLLCKDPAERLG CRGGSAREVKEHPLFKKLNFKR LGAGMLEPPF\KPDPAIYCKD VLDIEQFSTVKGVELEPTDQTF YQKFAT\GSVPIPGKNEQMVET ECFQELNVFGLDGSVPPDLW KGQPPAPPKKGLLQRLFSSPKD CCGN\CSDSSEEELPYPLAPSPRP
22165	52533	A	22293	102	403	
22166	52534	A	22294	1086	1436	
22167	52535	A	22295	965	1231	
22168	52536	A	22296	1434	2215	TPSFSLRTGVNKEHWVLLGFST EDGRW\MFTRGGEDCTARIWD LRSRLQCQRIFQVNAPINCVC LHPN\QAEIVGDQSGAIHIWDL KTDHNEQLIPEPEVSITSAHIDP DASLHGQLFNSTGNCYVWD\LT GG\IGDEVTQFIPKTKIPAHTRY ALQCRFSPDSTLLATCSA*LRR/ CKIWRTSNFSLMTEL\SIKSGNP GE\SSRG\WMWGCALIGGTSPNI VTASSNNLARLWCVKTGEIKRE YGGHQKAVVCLPFNDSVLG
22169	52537	B	22297	158	385	

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22170	52538	A	22298	145	1232	LPVRAEPTRAAAMSGDEMIFDP TMSK/NMKKKKKKPFMLDEEG DTQTEETQPSETKEVEPEPTED KDLEADEEDTRKKDASDDLDD LNFFNQKKKKKK\TKKIFDIDEA \EKGVKDL\KI*SDVQEPTPED DLDIMLGHKKKKKKNVKFPDE DEILEKDEALEDEDNKKDDGIS FSNQTGPAWAG\SERDYTYEEL LNR\VFNIMREK\NPGYWLPGG RKRKFGPWKPPQV\VRVGTKKT FFCPLLQDICKLLHRSASISFA FLLG*IGVPSGSIDG**PNL*SKG RF\QQKQIENVLRRY\KEYVTC\ HTC\RPDIT\LAQKDTRLLFPYS AETC\HS\RCFCWPVFKTGLPQA VHGQSRGTAPVPA
22171	52539	B	22299	50	319	
22172	52540	A	22300	3	235	LLLYPLRSLPENPLRLVQQIYSF LKGSSEK*NDLPRVPLLELGVG LLPPNQYSCSRAPCLTCGLTM SLDGAQQGFW
22173	52541	A	22301	3	2849	WAKPVARASPAAVPGRQCQIR GAWSWGEGRGQPGPASPAGS PATSEESLAPMAWRCPRMGRV PLAWCLALCGWACMAPKGTQ\ AEESPFVGNP\GNITGARGLTGT LRCQLQVQGEPPVHWRDGG ILELADSTQTQVPLGEDEQDDW IVVSLRITSLQLSDTGQYQCLV FLGHQTFVSQPGYVGLEGLPYF LEEPEDRTVAANTPFNLSCQAQ GPPEPVDLLWLQDAVPLATAP GHGPQRS LHVPGLNKTS
22174	52542	A	22302	3364	3899	LVFLFDDL GIVELVLPGNIVHGI MSVRPRVAAGLRVRLQPGRRW LRGPLQLGAPLGLDLLVDVPGS PRFVVGVELPLVV/EAPRPPTPP AAAQQARS*GLECPGRGAAAP REV\LHLQTAHIHGPGRGGPR ARPGLPGLCPP*T/FSCQEAKGE RGAHSNGSGSKWPPPPPPPS

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22175	52543	A	22303	1660	4652	PNPNTCLCNHVESGPCPSTHT YTLDLQPLFGVRVPTRPSGRG TQAEESPFVGNPGNITGARGLT GTLRCQLQVQGEPEVHWLRD GQILELADSTQTQVPLGEDEQD DWIVVSQLRITSLQLSDTGQYQ CLVFLGHQTFVSQPGYVGLEGL PYFLEEPEDRTVAANTPFNLSC QAQGPPEPVDLLWLQDAVPLA TAPGHGPQRS LHVP GAAVGAW EGGSRLWLRAP EAGRKRWGGE VPPVTHAGAGMLR SERD
22176	52544	A	22304	54	288	SEAGQAQPA AAVGVWTGRR A WETGEGYYSNLSMELQL*RQ CI*DCFFSSSWRCSVPVYFKEEK YKGNLVCLLFFK
22177	52545	B	22305	243	2641	
22178	52546	A	22306	35	204	
22179	52547	A	22307	244	424	PSLFKNIMTFYPNLHFLWCRGR LYLDVWRQ/VR*FVRNTNYQLP LVLHNLLSRFNTFDELV
22180	52548	A	22308	1	477	
22181	52549	A	22309	2	418	WYQHLLLMRASGSFQSWWKV KGEPAYHMANRP**SLISLRTK AKTGA*LFDYFVPHFIRKN*SLF TIAKAWNHPKCTSVTDWIKKM WYIYTMEYYAVTRRNKIVSFA ET*MELEVIIVSKLTQE QKTKHC MFSLTSGS
22182	52550	A	22310	30	199	
22183	52551	A	22311	547	682	LVFLTNQRLVSTHQGTW\WE*K *CQPVIPSL*FYFLRKFSVIVIW* *LLILP*HPMALKI/C/CCQAACS GHFTAGTGEITRPCSIS SKVLKR LSRL*STSGS**LVFLTNQRLVS THQGTWMKLEA ILSKV TQE QK TKHHMLSLRSGS
22184	52552	A	22312	2	194	CPSMIDWLKKMWHRYTMEYY AA\IKKNEIMS\FAGTWMKLEAI ILSKLTQE QKN\KHCMFSLITGS
22185	52553	C	22313	1	1845	

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22186	52554	A	22314	1	1384	MRFQDRTWQVPYPSQCSWGSS RQGYVPQARGIVLDSQEAYPSP GGTTLCHMDPKQAPG/PVRRP APGN\PNRLVVSVALQFLTFHES GITSALRVRPLQSV\SFQGGPGC TEA*RRASICRRRV*HSTKLDL GAVAAQQQAWVAG\PRSPQRR CHQYS*AGPAWLGLQRGRGSH RPDTSPWHFWALAGREEQVL PPESLL/RARTPGTHLAPGGA* TRVQSGPGSWLTWAG*GTPQVI SS/PGAGAVGAPETTAVPTVSIA PRRSVEMWPETKEHLVAVARR KWVSAQEKRLSLRGCGSEKMG VSPGETRVYFPALTS\RCCRRCG RVSEPSPTASWAPAPSLGWAYQ LAGGRLVLRVGLSAGWRAACP QGGPISWLEGGSSGVLSAG WRAACPQGGPISWLEGGSSST MRQPRAPQSSLPAPAPWGAPDP LAMLAAWIEARPGVWPTQPGP WQVSWVCV
22187	52555	A	22315	11	431	RHLLAAPPAPAAAAAALSH CLRSSGRLAPHTSRRLPRVVKR RVNALKNLQVKCAQIEAKFYE EVHDLERKYAVLYQPLFDKRF EIINAIYEPTEECEWKPDDEDEI SEELKEKAKIVDEKK\DEEKEDP KGIPEFW
22188	52556	A	22316	64	467	PAAWLPILVAARQLTVQMMQN PQILAALQERLDGLVETPTGYIE SLPRVVKRRVNALKNLQVKCA QIEAKFY\EEVHDLQRKYAVLY QPLFDKRFEIINAIYEPTEECE WKPDDEDEISEELKEKAKIEDE
22189	52557	A	22317	2	177	
22190	52558	B	22318	228	377	
22191	52559	A	22319	630	767	WRVKFKNTVKIQANF*KSRFIH LTVVPVTILSQVTQLTMSPKT

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22192	52560	A	22320	80	1362	VTACAAPAAWLPILVADIWSSY NMADIDNKEQSELDQDLDDVE EVEEEETGEETKLKARSA*LFR MM\QNPQILA\ALQERLDG/LW VETPT\GYIESLP\RVVKRR\VNA LKNLQVKCAQKETQ\FYE\EVH DLERKYAVLYQPLFDKRFEIIN AIYEPTEECEWKPDEEDEISEE LK\EKQGIEDEKKDEEKEDPKGI P*IW\LT VFK\NVDLLSDMVQEH DEPILKHLKDIKVKFSDAGQPM SFVLEFHFEPNEVFTN\EVLTKT YRMRLEPEPDDSDHFSFDGQEI MGCTGCQIDWKKGKNVTLKTI RK*/RRNHKGRGT\VRTGH*NQ FPNDSFSNFFCPLLKSPESGDL ED\AEAILAADFEIG\HFL\REII PRSVLYFTGEAIEDDDDDYDEE GEEADEEGEEEGDEENDPDY\D PKK\DQNPAECKQQ
22193	52561	A	22321	3	425	GCGCGGAAARGSPAPGRPAAS PPDCPLWLQGCYPPPSDALSA TEADGCD*IYPPDTSRDGPHQA SLPGESSFPGQPND SYLPERGS ERSRQASYATPAAETQDPDEGL PQPGPEALPGGLQVPKSAAPFC GAQHAAGQ
22194	52562	A	22322	2	285	SRFEPRVRPTGGDRPHQASPPG DSSSFPGQPND SRLPECGSECRG QASYATPAAETQDPE*RSSPTRS *SP\PGGFQVPKSAAPFCGAQHA AGQ
22195	52563	A	22323	85	473	FTMPAVALVPKELYLSSSLKDL NKKTEVKPEKISTK/QDYVHSIL GTANIKKAIEEAERLSESLKLY KEAEVRK*LEEKDRQKEAQQ LQQKRQETGREVDGGTLAKVSLE NVLDYQDKTQKSNGEKSEKM

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22196	52564	A	22324	1	1449	MMRAHMFVYKELKQIYKKKT HPHQKVGKGYQTLLRGRHLR GQETYEKKLTHVYETDDFKQQ QYYFHSILGPANIKKATGETER LSESLKLRVEEVEIWKKLEEKD RQGEAQWLQQKRQETGREDGS MLAKGSLEIVLDSKDKTQKSN GEKNEKCETKEKGAITAKELYT MMMDKNISLIIMDAQRMQDYQ DSCILHSLSVPEKAISPGVTASW IEAHLPPDDSIDTWKKRGVVEY MVLLDWFSKADLQIGTTLWH LKDALFKWEKGGYKNWFLCY SQYTTNAKVTPPPQHQNELSS LDFTYPSLEESIPSKPAAEMPPP PIKVDEDIELISDQISDNDQNER TGPLNISIPVESVAASKSDVSPH QPVPSTKNVPQIDHTKKLAVKL PEEHKSESTNHEQQSPQNEKV IPDCSTKPVVSSPTLMLTDEEKA HHAETALLMEKNKQEKELQE RQQGKQ/K/EKLREEHEQKAK
22197	52565	A	22325	185	2983	FIMPAVASVPKELYLSSSLKDL NKKTEVKPEKISTKSYVHSALK IFKTAEECRLDRDEERAYVLYM KYVTVYNLIKKRPDFKQQQAD CAYFLGQTVHILFQHRALLEKK YRAVGAITAKELYTMMTDKNI SLIIMDARRMQDYQDSCILHSL SVPEEAISPGVTASWIEAHLPPD SKDTWKKRGVVEYVLLDWF SSAKDLQIGTTLSLKDALFKW ESKTVLRNEPLVLEGGYENWL LCYPQYTTNAKVTPPPR
22198	52566	A	22326	313	3720	FIMPAVASVPKELYLSSSLKDL NKK\TEVKPEKISTKSYVHS/AP RKIFKTAEECRLDRDEERAYVL YMKYVTVYNLIKKRPDFKQQQ DYFHSILGPGNIKKAVEEAERLS ESLKLRYEEAEVRKKLEEKDRQ EEAQLRQQKRQETGREDGGTL AKGSLENVLDSKDKTQKSNGE KNEKCETKEKGAITAKELYTM MTDKNISLIIMDARRMQDYQDS CILHSLSVPEEAISPGVTASWIE AHLPPDSKDTWKKR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22199	52567	A	22327	46	562	LLQGPFGCGDSMPVEARPSAA WRGGRAPGWTPFSPPDRETWK PQ/RASQGESGQRRFGPCPRSGG RPPGPGSAAHSSRSQRWRKASR AWPAAPRKGLPPAQAWPPTP AAGL*GFLAACKR/PPVGGRGP APAPCRPASSRCFLICDSGPPCL CSASRAAWMGSAASSRVLFIEG
22200	52568	B	22328	51	445	
22201	52569	A	22329	51	366	CQWNTQTQVCYKQDVQSITAL GSAAQCTCLSSPR*SGKFKLLFS PGLPGTLVPSTIPATSAPRA/SHR AGEAWVGEPGRALAAALQNSSIP DWAGYQGLPCKPSIRAA
22202	52570	A	22330	257	916	SPSGSNLETHLRAPDLGGPCPP GPRWWA*TPQPGHPQTRPSAA QPCFPFPQCQLIHCPC/SPAPGT VAAPPAP\PTPASQCLLCPWTS PVCSPAPTFPCMAPVMAFMLP SYSFP/PGTPNLPQAFFPSQPQFP SHPTLTSEMASASQ\GSPAGPR SPDSHVLVQPPGPPHHRPWVGP PHRSFSPAARPCSSSTCCSWRK PLRVALEPWGPQGPQRQQL
22203	52571	A	22331	151	1232	GRLGDARGPQGPEAPGGEEAA RADSTRACRSCGLLLGGRRGCR PSLKNAELLELTVRRVQCVLRG RAREREQLQAEARRALRCRLHP VACTKVHTFVSTCQAIDATVA AELLNHLLESMPREGSSSFQDL LGDALAGPPRAPGRSGWPAGG APGSPISPSPGPGDDLCSDDLEEA PEAELSQA/PC*GARLGARSPGQ PDHSPNCPGVSGGLGDQCQPES CRGGARPSLGSPLLPGVQMW WG*GPGSLPGSSLPPLMDGLQG QPLVTSPAQRPSVVS*KNF*GPC SSGSGWREGATGRRKNFVELP ALSQVSPSPAFNPRLCGLWGQR WQKLVLGTSPVPGSPGLNKSLN LPLQRGDERQVH
22204	52572	A	22332	1	1524	

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22205	52573	A	22333	3	8875	EDGSLLQEVGHIICLARGPGCGPE TPLYSPATGLALQLQGPAAMG ALWSWWILWAGATLLW\GKSG EDWISGPTIVFSQPGLTQEASV DLKNTGREEFLTAFLQNYQLA YSKAYPRLLISSLESASPVSILS QADNTSKKVTVRPGESVMVNI SAKAEMIGSKIFQHAVVIHSDY AISVQALNAKPDTAELTLLRPIQ ALGTEYFVLTPPGTSARNVKEF AVVAGAAGASVSVTLKGSVTF NGKFYPAGDVLVRT
22206	52574	A	22334	2	2214	ISATDGPLAPCHGLVPPAQYFQ GCLLDACQVQGHPPGGLCPAVA TYVAACQAAGAQ\LGWRRPDF CPLQCPAHSHYELCGDSCPVS PSLSAPEGCESACREGCVCDAG FVLSGDTCPVVGQCGCLHDGR YYPLGEVFYPGPECERRCECGP GGHVTCQEGAACGPHEECRL DGVQACHATGCGRCLANGGIH YITLDGRVYDLHGSCSYVLAQ VCHPKPGDEDFSI\LEKNAAGD LQRL\VTVAGQVVSLAQGGQV TVDGEAVALPVAVGRVVRTAE GRNMVLQTTKGLRLLFDGDAH LLMSIPSPFRGLCGLCGNFNG NWSDDFVLPNGSAASSVETFG AAWRAPGSSKGC\GEGCGPQGC PVCLAEETAPYESNEACGQLRN PQGP\ATCQAVLSPSEYFRQCV YDLCAQKGDKAFLCRSLAAYT AACQAAGVAVK\PWRTDSFCPL HCPAHSHYSICRTRCQGSAAAL SGLTGCTTRCFEGCECD\DRFLL SQGV\CI\PVQDCGTHNGRYLPV NSSLLTSDC\SERCS\SSSSGLTC Q\AAGCP\PG\RVCEVKA\EAR\N C\W\ATRGL\CVLSV\G\ANL\TTF DGARGATTSPGVYELSSRC\GPL QNTIPWYRVVAEVQICHGKTE AVGQVHIFFQDGMVTLTPNKG VWVNGLRVDLPAEKLASVSVS RTPDGSLLVRQKAGVQVWLGA

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22207	52575	A	22335	3	7639	ITCPENSHYEVCGPPCPASCPSP APLTTPAVCEGPCVEGCQCDA GFVLSADRCVPLNNGCGCWAN GTYHEAGSEFWADGTCSQWCR CGPGGGS LVCTPASCGLGEVCG LLPSGQHGCQPVSTAECQAWG DPHYVTLDGHRFDFQGTCEYL LSAPCHGPPLGAENFTVTVANE HRGSQAVSYTRSVTLQIYNHSL TLSARWPRKLQVDGVFVTLPF QLDSLHHAHLGADVVVTTTS GLSLAFDGD SFVRLRVPAA
22208	52576	A	22336	2	224	HCYMVVQLWKPRSLRRKSDQL WSSWNQLNTSELSSFISAEMQT EAFDCGSMAGRM*GQGRYLLA ALWDSSVPLS*PQAEPWSGVGP AHLTE/LLSPSRFVSISDLLAPKD LGTESQVSMEV*KDMGRFHWE DIPP*A*VFVIFVFQIFISRTY\DA TTHFETTCDDIKNLL*R*QGRYL LAALWDSSVPLS
22209	52577	A	22337	2	206	LSSSYLDQPCYETINRIKLYSES LARYGKSPYLYPLYGLGELPQG FAR*EPVFKTSVIQNLIFNIMCI
22210	52578	A	22338	2	457	
22211	52579	A	22339	2	1556	FVFPSEVAVGLALSPASIFLSFSS PFLRAQERLPSLLWWARSPCAF SLLGSCVRACPAMNEEYDVIV\ LGTG\TECILSGIMSVNGKKVL HM\DRNPYYGGESASITALEDL YKRFKIPGSPPRVKWGEERDW NVDL\IPKFLKANG\QLVKMLL YTEVTRYLDFKVTEGSFVYKG GKIYKVPSTEAEALASSLMGLF EK\RRFKEFLVYVANFD\EKDPR TFEGIDPKKTTMRDVYKKFDL GQDVIDFTGHALA\LYRTDDYL\ DQPCYETINRIKLYSESLARYG KSPYLYPLYGLGELPQGFARLR CYLWEGTYMLNKPIE\EIIVQE WGK VIGCKI*REEIARCMQLIC DPSYVKDRVEKVGQVITVICIP QPPPSKNTNDANSC\QIIPQNQ\ VNRKSDIYVC\MISFA\HNVA AQ GKSIAIVSTTVETNKEPEKEIRPA L\ELL\EPIGTEILVSISDLLV PKD LG\TESQIFIS\RTYDATTHFETTS D\DIKNYKR\MTGSEFD FEEMK
22212	52580	A	22340	66	420	
22213	52581	A	22341	64	140	
22214	52582	A	22342	2	254	

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22215	52583	A	22343	82	3530	HLIVAMPEPTKKEENEVPAPAP PPEEPSKEKEAGTTPAKDWTLV ETPPGEEQAKQNANSQLSILFIE KPQGGTVKVGEDITFIAKVKA DLSEKPTI/KWF/K/GKWMDLAS KAGKHLQLKETFERHSRVYTFE MQIIKAKDNFAGNYRCEVYK DKFDSCSFDLEVHESTGTTPNID IRSAFKRSGEGQEDAGELDFSG LLKRREVKQQEEEPQVDVWEL LKNTKPSEYEKIAFQY/GITDL\R GMLKRLKRSI
22216	52584	A	22344	66	358	TWVRGNPKPKITWMKNKVAIV DDPRYRMFSNQGVCLEIRKPS PYDGGTYCCKAVNDLGTVEIE CKL\EVKVIYQGVNTPGQPVFL EGQQQSLHNKDF
22217	52585	A	22345	67	3515	HLIVAMPEPTKKEENEVPAPAP PPEEPSKEKEAGTTPAKDWTLV ETPPGEEQAKQNANSQLSILFIE KPQGGTVKVGEDITFIAKVKA DLLRKPTIKWFKGWMDLASK AGKHLQLKETFERHSRVYTFE MQIIKAKDNFAGNYRCEVYK DKFDSCSFDLEVHESTGTTPNID IRSAFKRSGEGQEDAGELDFSG LLKRREVKQQEEEPQVDVWEL LKNAKPSEYEKIAFQYGITDLR GMLKRLKRMREEK
22218	52586	A	22346	2	39	FQFCVSLFVYIQLNSDVLPE*PR HKKKPPTLSHWFLK*NLHL*N* NTKALKYRKL*V*LT SQKH*QM TYPFCNYLKTN*VTTNTKVK*T EGY*TAKTQKLYPDKVVMATN KPLKTRSPK\PAKYGSPHDTAT WTGSGLGLEAS*HSA
22219	52587	A	22347	1	113	
22220	52588	C	22348	47	337	
22221	52589	A	22349	1	2292	
22222	52590	A	22350	2	441	LRHAKWFQARANGLKSCVIVIR VLRDL\VTRVPTWGPLRGWPLE LLCEKSIGTANRPMGAGEALRR VLECLASGIVMP/QHALRLAAF GQLHKVLGMDPLPSKMPKKPK NENPVDYTVQIPPSTTYAITPM KRPMEEDGEEKSPSKKK

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22223	52591	A	22351	45	402	HALAALEKLFDPDTPLALDANK KKRAP\VPVRGGPKFAAKPHNP GFGMGGPMHNEVPPPNLRGR GRGGSIRGRGRGRGFGGANHG GYMNAGAGYGSYGYGGNSAT QGYK*LFHKTAAYGYS
22224	52592	A	22352	243	3113	FPDTTEEVKMRPMRIFVNDHRH VMAKHSSVYPTQEELEAVQNM VSHTERALKAVSDWIDEQKEG SSEQAESDNMDVPPEDDSKEG AGEQKTEHMTRTLGR\VMR\VG LVAK\CLLLKGD\DLAELVLLC\ KEKPTT\ALL\DKVADNLAI\QL AAVTEDKFEILQSVDAAIVIK\ NTKEPPLS\LTIHLSPPVREEM EKVLGETLS\VNGPPGNVLDR SRIAF AFRGSLPETQRWFQ\AR ANGLK\SCV
22225	52593	A	22353	139	245	
22226	52594	A	22354	875	2019	NPNSQMPKMTRSTKQLTNKSG QIDGCPGCRVPTWCRLGHLSH YWAVWASILRFWEVWKYWL NMGRKSSEFPILKLN\RTMGD *VLPFHMYV\QPVV\HPQLYPHS VTELTGDYFKPWWDGQPSLQQ VL\ERVDEWMAKEGLL\DPNV QVQFLFTLWEDWGLKKS\VLPG QCQ*LGAWPVGGFTSKQWD*S *KKAYSF\AMGCWPKNGLLDM NKGLSLQHIGRPHSGIDDCKNI ANIMKTLAYGGFIFKQTSKPVLI GRGQDGAGQGS\VGPPQNPP PHQRGKRESGHKLCCPKVPSA SLWGSMP\GRGLCCPLQGALA TWPFLARHFCAPPSPTQSQPS ISPSHCGPLRGTPGTHRLLPW YNRLLWGHQDPRCAPSHP
22227	52595	A	22355	507	916	RKKNEKEGTPPRNMGICEKT KPTFDWCT*K*RGWNVQVGKY TSGYYTGELPQSSKTGQHSNSG NTENTTKILLEKSNPKTHNW*I HQG*NEGKTVKGSQREK*GYP QREAHQTNSRSLCRNPTRQKR GVNIKHS
22228	52596	B	22356	72	359	

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22229	52597	A	22357	1236	1987	GNSSPPGLPCKSSSSPPPPSLTG APARRAAAAPRPASRPRPPLA\ GGGVPQLFATRPP/PGPTRARRP TWR*GPRGSPEETPRRRREWTR RPEPGCRAQGSRRPARPPSGSS AVRSASPASSPAPAASAPLGPRS RWS*RPPSRPRR/SPPPPPGSR SDRER/GRRKEASPLTLAEAPA Y/RQDQAPPPGSPHLGFQSAAG PSRTASSAP/RSGIGGRGANTPA PAAIFPPSLRPPRAGPVGDLRAS GVDA
22230	52598	A	22358	287	2082	LKTETSEEKARRYKDRPSQLNA VFQEQKKMIQAQESITLEDVAV DFTWEEWQLLGAAQKDLYRD VMLENYSNLVAVGYQASKPDA LFKLEQGEQLWTIEDGIHSGAC SDIWKVDHVLRLQSESLVNR KPCHEHDAFENIVHCSKSQFLL GQNHDFDLRGKSLKSNLTLVN QSKGYEIKNSVEFTGNGDSFLH ANHERLHTAIKFPASQKLISTKS QFISPKHQKTRKLEKHHVCSEC GKAFFKSWLTDHQMHTGEK PHRCSLCEKAFSRKFMLTEHQR THTGEKPYECPEGKAFLLKSR LNIHQKTHTEKPYICSECGK FIQKGNLIVHQRIHTGEKPYICN ECGKGFQKTCLIAHQRFHTGK TPFVCECGKSCSQSGLIKHQ RIHTGEKPFECSECGKAFSTKQ KLIVHQRTHTERPYGCNECGK AFAYMSCLVKHKRIHTREKQE/ CSQGGKSSCREAQLITHQ*CHA GEKLC*RGDYTSAFCGPSDIIKH QRP/HSQNRN/CSPCGTASGQM CSLRR*QWICTGQKPECESECG CAFRDQLCLILCYRKPIGRKPD LCGKGLSKNL*FIMWPKSIHCE
22231	52599	C	22359	90	344	
22232	52600	A	22360	2	543	
22233	52601	A	22361	373	490	
22234	52602	A	22362	111	396	GAPPGIWCLSLWACRALSPLSS AAQHRKRPSALSPATPAGSRPL RRCAPGFAATKTQRVQRRPPRR *GAAAGAGGS*RPLCGVVIHSV LHNTPE

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22235	52603	A	22363	1902	3474	VPQRSTGSGRARSARRPLRAPD PCAAAPRVSPQPRPSECSGGRR GGSKTWAKRNAGKELTDRNW DQEDEAEVGTFSMASEEVLK NRAIKKAKR\ RNVGESDTGGA FKGFKRFGGYPSEEERFSGFG\S GAGGKPLEGL\ SNGNNIT\SAPP FASAKAAADP\KVAFGK*LPSPS RLLVDKNVSNPKTNGDSQQPSS SGLASSKACVGNAYHKQLAAL DCSVRDWMVKHANTNSLCDL TPIFK\DYEK\YLANIETANTGN\ SGRNSESESNKVAAETQSPSLF GSTKLQQUESTFLFHGNKTEDTP DKKMEVASEKKTDPSSLGATS ASFNFGKKVDSSVLGSLSSVPL TGFSFSPGNSSLFGKDDTTQSKPV SSPFPTKPLEGQAEGDSGECKG GDEEENDEPPKVVVTEVKEED AFYSKKCKLFYKKDNEFKEKGI GTLHLKPTANQKTQLLVRADT\ NLGNILLNVLIPP\NMPCTRTGK NNVLIVCVPNPPIDEKNA\TMP\ VTMLR\RVKTSEDADDELHKILLE
22236	52604	C	22364	65	283	
22237	52605	A	22365	3	419	
22238	52606	A	22366	1	512	CGRPPWKTGQRSQPSCPPGSSG SGRGIP\PAAWHEGEGPEAVLQ GHRAGRGDPACRGLCCLPSQL GGPTSPTSAAASRACGSRGAATL VVKVKWFYHP/CRRPSWARGS ATARMRCTSPATRMRTTCRPSP TSARSWRASSMSRWPGAASAR TGRTSTTGGLRPHHRAPGDG
22239	52607	A	22367	1	2940	MRRRRKVAAIHAGPRPRSA SSEQRGRGPGAARRAGGA ASGVTGGGGGGAGQHAGGLG FSAGGRAPSQRPLCGSMPARLF SKQEVDYCGLPAPPASSLRSG HRQRIYSLNQLLQEALRTGRAR PGEGPGWLVTDKGGLGWSSH SQAQGPDSQAAWGRAPPAHGS SPAFLQVLDVRPQSSRYLPPGT RVCA YWSQKSRCLYPGNVVRA PPPCFGRLLGVPAASSGVPSTG ASGDEDEDLDSVVVEFDDGD
22240	52608	B	22368	215	356	
22241	52609	A	22369	282	499	YLLHCLPSDPPSFTNSPDGRGRR RRRQRRRRSDPPGRGRTKSSTR VPGSNRFV*FHQR*GRLKEWM ANQDTN

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22242	52610	A	22370	105	619	ACQASSHSGPVWGPGERITPG A*ASARREPSRNQHPLWVTE Q/I*IASPRTVANPLVPARTPTGP RTNKP KHLIKQGRGQPRQPLSG STGGAGESPASGCAGGQPAHR VWIAPAARGCGQHTPWKAPAG NGQSPRPASATRMIGPSPSLSP APPAVVGVAALGSRNRCIL
22243	52611	A	22371	1	441	
22244	52612	A	22372	10	621	LRQLERGLAKGQPSTPVDRPLG PDPSAPGTLAGAALPPEPPAPC LCQDPQEDSVEDEEPPGSLGLP PPQAGVQAAAAVSGTTQPLG TGPRVSLSPHSPLSPKVASMD AKDLALQILPPCQVPPPSGPQSP AGPQGLSAPEQQEDEDSEEDS PRALGSGQHSDSHGESSAELDE QDILAPQTVQCPAQAPAGGSEE T*LRQLERGLAKGQPSTPVDRP LGPDPSPGTLAGAALPPEPP APCLCQDPQEDSVEDEEPPGSL GLPPPQAGVQAAAAVSGTTQP LGTGPRVSLSPHSPLSPKVAS MDAKDLALQILPPCQVPPPSGP QSPAGPQGLSAPEQQEDEDSE EDSPRALGSGQHSDSHGESSAE LDEQDILAPQTVQCPAQAPAGG SEETIAKA

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22245	52613	A	22373	1	2271	MPGELLAPSCCCRGGPTRDRTD LSCDAAAATTILGGDRREPCAL TPGPSHLALTFLPSKPGARPQPE GASWDAGPG\LSTEAPLPATLE PRIVMGEETCQALLSPRAARTA LRDQEGWGL/SPQGSMDEREL HPAGTPEPPSSESSLADSSSSW GQEGHFFDLDFLANDPMIPAAL LPFQGS LIFQVEAVEVTPLSPEE EEEEAVADPDPDSASYAEADDE RLYSGEPHAQATLLQDSVQKTE EESGGLRYDTASAPTRHRSLSV PKACSCSHDCAP\AG*RGPHLTP GLRYDTASAPTRHRSLSIPKAC GCSHDCVPAG*RGPHLTPGLRY DTASAPTRHRSLVSPKACSCSH ACVPAG*RGPHLTPGLRYDSTS ASARHRPHLRSRASGCGHPSNL AGRSRLCPRDRACGHHGSAGS/ SAWTGSMGSA\HR*WG*A*L TPKGDPGG*EPAGRRPEG\TGT GTWTQPQGGHLGCRPGLADL AALPSASSLWAPEPSWPS/SALS PRAARG*GQPGGRLASGPGLGP AFG*PRGVISRAGRAGHLGSSD RAVSSPGAQSREEGPSRRQ*GD HRQSQAESQ*EEGPKGNVKAG LAADSGSHQDHHPEVQEHPLC HRQA*CLQGDPAHLCG\FWR GQ\T*GP\CPASAQSR*EV*GAL R\DL SLGP*VST\QGP* A*VQG KGKG\GGGKGGPGGAGTA*HL
22246	52614	A	22374	2	211	
22247	52615	A	22375	43	241	
22248	52616	A	22376	184	332	
22249	52617	A	22377	1292	1923	KAGARGNQEGTMASSSG\TQK VLTIPRGCYQ*K*SKETLP*CSG WPNDAR\EA VVNC\CTEF\HLIS SEANEICNKSEKKTISPEHVIQA LESLGFGSYISEVKEVLQECKT VALK\RRKASSRFGKPLGIPEEE\ LFGDQANKELFGKSLDQQQAE\ LAQQ\EW\LQMQQAA\HQA\QL AAASAKCI*SRRGSFSGMEEDG GWISEIPPAEFLFLL
22250	52618	B	22378	1	1701	
22251	52619	A	22379	1	147	

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22252	52620	A	22380	1	484	IRHEGRGQRGKMELVQ\VLKRG LQQITGHGG/LFRGYLRVFFRT NDAKVGTLVGEDKYGNKYEE DNKQFFGRHRWVVYTTEMNG KNTFWDVDGSMVPPPEWHRWL HSMTDDPPTTKPLTA\RKFH LG RNH*ISTWTGAPQEQYVPYSTT RK\KIQEWIPPSTPYK
22253	52621	A	22381	3	258	DMAAQIAEGMAFIEERNYIHRD LRAANILVSDTLCKIADFGLA RLIEDFTIKSDVWSFGILLTEIV THGRIPYPGTMNPEVIQN
22254	52622	A	22382	1	738	
22255	52623	A	22383	233	1898	GAGPTGYLRRLPGWAGTMGC GCSSHPEDDWMENIDVCENCH YPIVPLDGKGTLLIRNGSEVRDP LVTYEGSNPPASPLQDNLVIAL HSYEPSHDGDLGFEKGEQLRIL EQSV\EWKQSLTTGQEGFIP FNFVAKANSLEPEPWFFKNLSR KDAERQLLAPGNTHGSFLIRES ESTAGSFSLSVRDFDQNGEVV KHYKIRNLDNGGFYISPRITFG LHELASAITPIASDGLCTR\LSRP CQTQKPQKPQKPWWEDEWEV PRETLKLVERLGAGQFGRCGW GTTTGTTKVAVKSLKQGSMSA GRLP\AEANLMKQLQ\HQRL\VR LYAVVT\QEPIYIITEYMENGL VDFLKTPSGIKLTINKLLDMAA QIAEGMAFIEERNYIHRDLRAA NILVSDTLCKIADFGLARLIED NEYTAREGAKFPIKWTAPPAI*S RCNSPPRSDVWSF\GDLLPEIFT\ HGRIP/YPQGIPNPELIQKLERGY RMVRP\SNCPKLYQL\MRLCW KERPED\RPTFDYLRVLEDFFK RHRRASNQPQALREPLRKPLCF
22256	52624	A	22384	3	203	
22257	52625	A	22385	2	467	
22258	52626	A	22386	1	468	
22259	52627	A	22387	1	645	

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22260	52628	A	22388	821	2637	AAASAWRATHSTTAAGRRTAL FRSPEPGNTRDTRRRRRATAPD CCRPATSPRALDWTSLHTRRHP VQNYLQWSYWQVLVSRWIAF AGLAMADYLISGGTGYVPEDG LTAQQLFASADDLTYNDFLILP GFIDFIADEVDLTSALTRKITLK TPLISSPMDTVTEADMAIAMAL MGGIGFIHNNCTPEFQANEVRK VKNFEQGFITDPVVLSPSHTVG\ DVLEGKMRHGFSG\IPITETGTM GSKLVGIVTSRDIDFLAEKDHT TLLSEVMTPRIELVAPAGVTL KEANEILQRSKKGKLPVNDCE ELVAIIARTDLKKS RDYPLASK DSQPQLLCGAAVDTREEDKYR LDLLTQAGVDVIVLDSSQGNSV YQY\ARVLYFKQKYPHLQVLG GNVVTAAQAKNLIDAGVDGLR VGMGCGSICITQEVMACGRPQ GTCCVTR*AEYARRFGVPIAD GGIQT VGHVVKALALGASTVM MGSLLAATTEAPGEYFFSDGVR LKKYRGMGSLDAMEKSSSSQK RYFSEGDKVKIAQGVSGSIQDK GSIQKFVPYLIAGIQHGCQDIGA RSLSVLRSMMSGELKFEKRT MSPQIEGGVHGLHSYEKRLY
22261	52629	A	22389	2	332	
22262	52630	A	22390	3	608	MTAVHAGHLNLKWDPKSLEIR TLAAERLVTQVTTLVNTNSKGP SDKKRGHSSKKVHVLAASVEQA AENFLEKEDKIVKESQFL*E*LL AAVEYVRKQ/GKECLRPSLEEH LEGIISGAALMGDSSCKHDDHR ERIAAECNTVLQ\ACRTCF/SEY MGNAGCKERSNSLNSAIDKMT KKTRDLRRQLHKA VMDHVSDS FLETNVPLL
22263	52631	A	22391	2	2864	

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22264	52632	A	22392	14	2897	PDWRETKQRPSASGLWNLALA QLAAEMTAVHAGHLNLKWD KSLEIRTLAVERLLEPLVTQVT TLVNTNSKGPSDKKRGHSSKV HVLAASVEQAAENFLEKEDKIV KESQFL*E*LLAAVEDVRKQG DLMKAAARRRSHDDPCSSVEQ GNMVQAA*TLLSAVTCLLILA\ DMGNVYKLLVQLKVVEDGILK LRNAGNEQDLGIQYKALKPEV DKLNIMAARQOELKDVGHRD QMAAARGILQKNVPILYTAS
22265	52633	A	22393	1	1584	
22266	52634	A	22394	1	3519	
22267	52635	A	22395	3	673	
22268	52636	A	22396	1	1574	DVPRDLEVVAATPTSLISWDA PAVTVRYRYRITYGETGGNSPVQ EFTVPGSKSTATISGLKPGVDYT ITVYAVTGRGDSPASSKPISINY RTEIDKPSQMQVTDVQDNSISV KWLPS SSPVTGYRVTTTPKNGP GPTKTKTAGPDQTEM TIEGLQP TVEYVVS VYAQNPSGESQPLV Q\VAVPTIPAPTDLKFTQVTPTS LSAQWALPNVQLTGYRVRVTP KERTGPMKEINLAPDSSSVVVS GLMVATKYEVSVYALKD TLTS GPAQGVVTTLENVSPRRARVT DATETTITISWRKTETITGFQV DAVPANGQTPIQRTIKPDVRSY TITGLQPGTDYKIYLYTLNDNA RSSPVVIDASTAIDAPSNLRFLA TTPNSLLVSWQPPRARITGYIIK YEKPGSPPREVVPRPRPGVTEA TITGLEPGTEYTIYVIALKNNQK SEPLIGRKKTVQKTPFVTHPGY DTGNGIQLPGTSGQQPSVGQQ MIFEEHGFRRTPPTTATPIRHR PRPYPPNVGQEALS

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22269	52637	A	22397	3	2382	QTEMIEGLQPTVEYVVSVYAAQ NPSGESQPLVQTAVTNIDRPKG LAFTDQDVDSIKIAWESPQGQV SRYRVTYSSPEDGIHELFPAPDG EEDTAELOGLRPGSEYTVSVVA LHDDMESQPLIGTQSTAIPAPTD LKFTQVTPTSLSAQWTPPNVQL TGYRVRVTPKEKTGPMKEINLA PDSSSVVVSGLMVATKYEVS YALKDTLTSRPAQGVVTTLEN VSPRRARVTDATETTITISWRT KTETITGFQVDAVPANGQTPIQ RTIKPDVRSYTITGLQPGTDYKI YLYTLNDNARSSPVVIDASTAI DAPSNLRFLATTPNSLLVSWQP PRARITGYIIEKPGSPPREVV PRPRPGVTEATITGLEPGTEYTI YVIALKNNQKSEPLIGRKKTDE LPQLVTLPHPNLHGPEILDVPST VQKTPFVTHPGYDTGNGIQLPG TSGQQPSVGGQMIFEEHGFRT TPPTTATPIRHRPRYPNVGEEI QIGHIPREDVDYHLYPHGPGLN PNASTGQEALSQTTISWAPFQD TSEYIISCHPVGTDDEPLQFRVP GTS\TSATLTGLTRGATYNIIVE ALKDQQRHKVREEVVTVGNSV NEGLNQPTDDSCFDPTYVSHYA VGDEWERMSESFGKLLCQCLG FGSGHFRCDSSRWCHDNGVNY KIGEKWDRQGENGQMMSCTCL GNGKGEFKCDPHEATCYDDGK
22270	52638	A	22398	48	7500	GATMACCAAQGEERVTPCASG KRGPAATSLVLWIPSVPPVPF PTLWPPPSWRRQPPGGIRRDFS RRLRREANLVATCLPVRASLPH RLNMLKGGPGGLLLAVLCLG TAVPSTGASKSKRQAQGMVQP QSPVAVSQSKPGCYDNGKHYQ INQQWERTYLG NVLVCTCYGG SRGFNCESKPEAEETCFDKYTG NTYRVGDTYERPKDSMIWDCT CIGAGRGRISCTIANRCHEGGQS YKIGDTWRRPHETGGYM
22271	52639	A	22399	1	403	NSTNKRRGFCFITFKEVEMKKY HNVGLSKCEIKVAMSKEQYQQ QQQWGSRGGFAGRARGRGGG PSQNNWQGYSNYWNQGYGNY GYNSQGYGGYGGYDYTGYN YYGYGDYSNQSGYGKVSRRG GHQNSYKPY

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22272	52640	C	22400	36	214	
22273	52641	A	22401	3	182	
22274	52642	A	22402	223	452	LESMTIFPYSDDKRAQYIFIQKD LLKKPVRHYIIMTLSHWAFNT RLALQYWGGKHKTQIDSEA*Q LRNKTMKANFF
22275	52643	A	22403	1	1037	MSEEQFGGDGAAAAATAAVG GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGSSA ESEGAKIDASKNEEDEGHSSNS PRHSEATAQREEWKFIGGLS WDTTKDLKDIFYSKFGEVVD TLKLDPITGRSRGFGVLFKESE SVDKVMQKEHKLNGKVIDPK RAKAMKTKEPVKKIFVGGGLSP DTPEEKIREYFGGFGEVESIELP MDNKTNRGRGFCFITFKEEPPV KKIMEKKYHNVGLSKCELK\VA \MSKEQYQQ\Q\QQWDSRGGCA GRA\RGRGGDQAE\GYGKGIQA RWAIKNSYKPYLNYSICQPYPP TAGTSLQALCRADFRFSQARSM
22276	52644	A	22404	299	1508	HYVGGSSSGDGAAARAT\AR AVGGSAGEQ\EGA\MVAATHG ARGGVWEADAATGGGTASGG T\EGGSAE\SEG\AKIYASKNEED EGHSSNSPRHSEATAQGRM\ KMVIGGLSWDT\TKDLKDIFYS KFGEVVDCTLKLDPITG\QSRGF GFV\LFKESES\DKVMDQKEH K\LNG\KVNDPKRAKAMKTKE PVKKIFVGGGLSPDTPEVEKIREYF GGFGE\VESIELPMD\NKTN*RG RGF\CF\ITFKEEPPVKKI\MEKK YHNVGLSKCEIKVLLNEQYQ QQQQW*SIGGFAGIALVIGGGP SQNWNQGYSNYWNQCYGNYG YSS\QGYG\GYGGYDYTG\YNN Y\YGYGDYSNQSGYGKVS\RR GGHQ\NSYKPHTKFIPICNLFPN RWLKQYFPNLKIQFERGSCHLL
22277	52645	A	22405	3	189	EESEPERKRARTDEV\PEEAAP RRKMRTTRTTCPVSRYAAP\QL LLQKLLQRRRKGSCSRG
22278	52646	B	22406	1	1356	
22279	52647	C	22407	135	260	
22280	52648	A	22408	1	1740	
22281	52649	B	22409	80	371	

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22282	52650	A	22410	257	1200	ISWCCMEQKKRLP\FSKREG\PY EFIICPSEDSSPLLRC AFCIGGMS VKEQMETIRHPLQTTRGPGPGP LFTDGPDP\PEAF\HGLLSIREM VSTEKVKPVGQSEPRVKPLEL DDSASGGVHMMVATPGRLMD LLQKKMVSLNICRYLALDEAD RMIDMGFEGDIRTIFSYFKHTSA AAIGLQLALDGGTGSGQKGC EEFPSSMSAVSTGLEASACCLS VTMDPLETLSRMASSTSSMSSL ARAWLSPEPGDSPGMVGGLP ELPGMAPLECGEFQRPESLCAD RNELGSQSPEFPGQEEDEDED DEEDEDE
22283	52651	A	22411	107	2069	GGVSPWRACVQQRMESEPER KRARTDEVLP\EEA\PRRKMR TRTTCPMCRYGSAGSLLLQKLL QR\RRKGAAEEEQDQSGSEPRG DEDDIPLGPQ\SNVSLLDQHHL \KEKAESA\KESCQGRKQLEGK KEKILGRIVCRAE\LDVK*KAD WLKGITVLIDPIKTQLGLPPR/Y MFLSMSEERHERVRKKYHILVE GDGIPPIKSFKEMKFPAAILRG LKKKGIHHPTPIQIQIPTILSCR DMIGIAFTGSGKTLVFTLPVIMF CLEQEKRLPFSKREGPYGLIICP SRELARQTHGILEYYCRLQED SSPLLRC\ALCIGGMSVK\EQ\ME TIRQGVHMMVATPG/RALMDL LQKKMVSLDICRYLALDEADR MIDMGFEGDIRTIFSYFKGQRQ TLLFSATMPKKIQNFA\KSALVK PVTINVGRAGAASLDVIQVEY VKEEAKMVYLLECLQKTPPV LIFAEEKADVDAIHEYLLKGV EAVAIHGGKDQEERTKA\IEAFR EGKKDVLVAT\DVASKGLVFPA IQHVINYDMPEEIENYVHRIGRT GR\SGNTGIATTFINKACDESFLI D\LKALLVRKPKQKVPV\QV L\HCGGWSPMLDIGRSSRGCAF CGG\LGH\RITDCPKL\EA\MQTK QVSNIGRKDYLAHSSMDF
22284	52652	A	22412	435	1428	

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22285	52653	A	22413	3	597	HKMAPYSPLVTRLQKALGVRQ YHVASVLCQRAKMAMSHFEPN EYIHYDLLEKNINIVCKRLNWP LTLEKIVYGHLLDDPASQEIEQ GK/S/YLWLWPDHVAMLQFISKI GATTSVFPYNHRMRRYLSK/TG RTDIANLADEFQDHLVPDPGCH YDQLIEINLSELKPHINGPFTPD QAHPPVAEVGKVAEKEGWPLDI RVGLT
22286	52654	A	22414	29	512	
22287	52655	A	22415	1	543	
22288	52656	B	22416	271	719	
22289	52657	A	22417	1	2438	SVHKMAPYSLLVTRL*KALGV RQYHVGSVLCQRAR\AMSHF EPNEYIHYDLLEKSINIVRKRLN RPLTLSEKIVYGHLLDDPASQEIE RGKSYLRLRPDRVAMQDATA QMAMLQFISSGLSKVAVPSTIH CDHLIEAQVGGEE\DL\RAKDI NQEYVNFATAGAKYGVGFV KPGSGIIHQIILENYCVPWLSF*L GPDFHTPNGGGVLGG\ICIGSCG WPNAWEWNLGIPWELKCPK VIGVKLTGSLSGWSPKDVILK VAGILTVKGGTGAIVEYQGPV DSISCTGMATICNMGAIEGATT SVFPYNHRMCKYLSKTGREDIA NLADEFKDHLVPDPGCHYDQLI EINLSELKPHINGPFTPDLAHPV AEVGKVAEKEGWPLDIR\VGLI GSCTNFKLWKIWGRSAAVAKQ ALAHG\LKCKSQF\TITPGFPRQ\N RATFE\RDGYAQILRDLGG\IVL ANACGPCIGQWDRKDIKKGEK NTIVTSYNRNFTG\RNDANPET HAFVTSPEIVTALAIAAGTLKFN PETDYLTGHGWARSFRLGGSR AD*VFPKGEF*PRGRDITYQHP K\DSSGAACWDLSPQSRLQLL EPFDKWDGKDLEDLQILIKVKG KCTTDHISAAGPWLKFRGHLD NISNNLLIGAINIENGKANSVG\N NPVTQEFGPAPD\LARYYKKHG I\RWVVGIDENYGE\SSREHAA
22290	52658	A	22418	14	260	RLCIGDAGVSPVCGP/CSAGGGP R*LNLEGGESSSVPRGG/CCSP VTATTAPGPCFPK*SDGSGCAE APDSGE/CS*ALGPHCGD

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22291	52659	A	22419	160	460	RLCIGDAGVSPVCGPLSAGGGP R*LNL*GGESSSVPRGG/CCSP VTATTAPGPCFPK*SDGSGCAE APDSGNCGAFCALRSPHRHPGP KPARERLLLTGL
22292	52660	A	22420	43	418	SLGCAEQN/FPAIAIQPGMAQEE RLSRYQQFKDFQRRILVATNLF GRGMDIERVNIVFNIDMPEDS DTYLHRVARAGRFGTKGLAITF VSDENDAKILNDVQDRFEVNV AELPEEIDISTYIEQSR
22293	52661	A	22421	1	592	RFSKYMPSVKVSFVRGLSIKK DEEVLKKNCPHVVRTRARILA LVRNRSFSLQNVKHFVLDECD KMLEQLDMRRDVQEIFRLTPHE KQCMMF/ERLSRYQQFKDFQRR ILVATNLFGRGMDIERVNIVFN YDMPEDSDTYLHRVARAGRFG TKGLAITFVSDENDAKILNDVQ DRFEVNV AELPEEIDISTYIEQS
22294	52662	A	22422	2	575	
22295	52663	B	22423	100	412	
22296	52664	A	22424	2	441	
22297	52665	A	22425	682	1032	
22298	52666	A	22426	1	1324	MAEQDVENDLLDYDEEEEPQA PQESTPAPPKKDIKGSYVSIHSS GFRDFLLKPELLRAIVDCGFEHP SEVQHECIPQAILGMDVLCQAK SGMGKTAVFVLATLQQIEPVN GQSGQVHIFGLHIGARALVISEH ILKDEGAVEGCGVVQCLMARV TVLVMCHTRELAFQISKEYERF SKYMPSVKVSFFGGLSIKKDE EVLKKNCPHVVGTPGRILALV RNRSFSLKNVHVFVLDECDKM LEQLDMRR\DVQEIFRLDTTPR KQCMMFSATL\SKDI\RPV\CRK FMQDPMEVF\VDDETKLTLHG\ LQQYYVKLKTSEKNRSLFDLL\ DV\LEFNQV\IIFVKSVQRCMAL AQLL\VEQNFPAAIAIHRGMAQE ERLSRYQQFKDFQRRILVATNL FGRGMDIERVNIVFNIDMPEDS DTYLHRVARAGRFGTKGLAITF

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22299	52667	A	22427	9	1535	EAQQLVSRPAENRSWKLLA ARGEERGASIMAEQDVENDLL DYDEEEEPQAPQESTPAPPKKD IKGSY\VSIHSSGFRDF/LCLKPE LLRAIGGLVAFEHPSEVQHE\CI PQGHPGA WDVLLPGQSPGMGK TAVFRCWPPLQQ\EPVNGQVT\ VLVM\CHTRELAFQISKEYERFS KYMPSVKVSVFFGGLSIKKD\AE EVMKKNCPHVVVGTTPGRILAL VRNRSFSLKNVKHFVLDEC DK MLEQLDMRRDVQEIFRLTPHEK QCMMF SATLSKDIRPVC RKFM QDPMEVFVDDETKLT LHGLQ Q YYVKLKDSE\KTRKVFDLWD\ LEFNQVDILRQGQCKRCMAL\A QLL\VEQNFP AQWPI\HRGN GPQ KERP VNA YQASSKDFPSGRDPL VATQ\ILFG\RGMDIEAKSN\VFN YDMP*GLGTPYL\HRVARRGR FGTKRP*PFTFVSDG\NDA\KILN DV\QDRF*S*MWAE\PEEIDIST YIEQSRLNHQLARAGPPGAAPH AASPPLSRRHC
22300	52668	A	22428	3	290	
22301	52669	A	22429	1	690	MNQTSEKEIISKEQGNVKAAGA SDVVLYKIDVPANRYDLLCLEG LVRGLQVFKERNFFLTVLEVEK SKTKVEQIQCLCSQEDIADKLG VDISATKAVHISNPKTAEFQVA RTTLLPGLLKTIAANRKMPLPL KLFEISDIVIKDSNTDVGAKNYR HLCAVYYNKNPGEIHHGLLDRI MQLLDVPPGEDKGGYV/IQSVG KLGVLHPDVITKFELTMPCSSL EINIGPFL

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22302	52670	A	22430	2	1834	GTRPTVSVKRDLLFQALGRITYT DEEFDE\LCFEFGLELDEITSEKE IISKEQGNVKAAGASDVVLYKI DVLATRYDLLCLEGLVRGLQV FKERIKAPVYKRVMPDGKIQKL IITEETAKIRPFAGAAVLRNIKFT KD\RYDSFIELQEKLHQNICRKR ALVAIGTHDLDTLSPFTYTAK RPSDIKFKPLNKTKEYTACELM NIYKTDNHLKHYLHIIENKPLYP VIYDSNG\VVLSMPPIINGDHSRI TVNTRNIFIECTGTDFTKAKIVL DII\VTMFSEYECENQFTVEAAEV VFPNGKSHTFPELAYRKEMVR ADLINKKVGIRETPENLAKLLT RMYLKSEVIGDGNQIEIIPPTR ADIIHACDIVEDAAIAYG\YNNI \QMHSPENFTP*ANQFPLNK\LT ELLRHDMA\AAGFH*STLPLAL CSQGRYWLDKLGVGYLWQQR AVHISN\PKTAEFQVARTTLLPG PP*RP*AANRKV\PLPL\KLFEIS\ DIVIK\DSNT\DVGAKKTTRQSL VAGLLPTKNPG\FEINSWGCWD RIMAVCSDV\PPGGRQGGDM*F KASEGPAFFPGAMCRDSFARGQ SL\GKLG\VLHPDVIHQIWS*PLP CSSLE\NIGPFL
22303	52671	A	22431	1	304	
22304	52672	A	22432	1	642	
22305	52673	B	22433	1	423	
22306	52674	A	22434	1	525	LHEHPVTESPMNCSVTLQLSLY MKSVA/GIGQTGKIEPVVLPLL WFAESGAMEGETLHTFYTQLV LMPKVMHYAQYVLLALGCVL LLVPVICQIRSQ/DRCWPEGSPG *QPFAFPPA*TDIILWTEPATLM AEVSACCAPELPPPHRVPQIIG AQAEVNEPGGPAFRALLDPGA
22307	52675	A	22435	3	483	VRGSGNSHGEVSKGRMCLAGA LPLPGACAALVLLLVLPEPLRC PLHTLYGGRDPVDSIRLWRQA GEFRHKSNTFNNNDTVSFLEY RTF\QFQPSKSHGESDYIVMPN ILVLNKPRSTWISVCVHGCIPA SRTGPRTESMHSKSLWKAWLA APGLPLL

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22308	52676	A	22436	1	1623	RRRPRLPGAEPCEPRVGPARRA DMGCSAKARWAAGALGVAGL LCAVLGAVMIVMVPSLIKQV LKNVRIDPSSLSFNMWKEIPIF YLSVYFFDVMNPSEILKGEKPQ VRERGPYVYK/ESSRHKSNTFN NNDTVSFLEYRTFQFQPSKSHG SESDYIVMPNILLVGVAVMME NKPMTLKLIMTLAFTTLG\ERA FHGTALWGEV\MWGYKDPLVN LINKYFPGMFPFKGGFGVFAEL NNSDSGLFTVFTGVQNISRIHLV DKWNGLSKVDWFHSDQCNMI NGTSGQMWPFFMTPESSLEFYS PEACRSMKLMYK\ESGVFEGIP TYRFVAPKTLFANGSIYPPNEGF CPCLESGIQNVSTCRFSAPLFLS HPHFLNADPVLAEAVTGLHPN QEAHSLFLDIHPVTIIPMNCVK LQLSLYMKSVAIGQGTGKIEPV VLPLLWFAESGAMEGETLHTF\ YTQLVL\MPKVMH\YAQYVPS WALG\CVLLLVPV/LSCQIRSQE KCYLFWSSSKGSKDKAEIQA GSE*SLMTSAPKGS\VLQEAKL
22309	52677	A	22437	198	1062	STCVEMPRNLLYSLLSSHLSPHF STSVTSKAVAVNGVQLHYQ\HF GEGDHAVLLLPGMLGSGETDF GPQLKLNKKLFTVVAWDP\R GYGHSRPPDRDFPADFFERDAK DAVDLMKALKFKKVSLGWS DGGITALIAAAKYPSYIHKM\VI WG\ANAYVT\DERPAG*YEGHP RMVSQMGVEGKKESL*EALYG YDYFARTCEKWVDGIR\QFKHL PDGNICRHLLP\RVQ\CPPPLIVH G\EKDPLVPRFHADFIHKHVKG SRLHLMPEGKHNLHLRFADEF NKLA\EDFLQ
22310	52678	A	22438	223	393	AQASPLLPP**ERSNVPCPIS

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22311	52679	A	22439	524	1516	FILEDITGYVMAPIDGLLCREPR RGLYLEGTPMTLFQIQFLNSV GDLLDLIPSLSPKNGSLKVFKR WDMGHCSALIKVLPGFENILFA HSSWYTYAAMLRIYKHWDNFNII DKDTSSSRLSFSSYPGFLESDD FYILSSGLILLQTTNSVFNKTL KQVIPETLLSWQVRVANMMA DSGKRWADIFSKYNSGTYNQ YMLGPEESKAEPQSLTKGT/P VTLWEQIPTY/VRNISGTNLMFL RGKGFWA\SYNVPFHEKIYNWS GLSHC*FRKLGLGPTPYDFRPH EPKIFRRDPR/DK*LIRHPMKYI MRYN\NYKE\DPYSRGDPPVNT
22312	52680	A	22440	1	306	
22313	52681	A	22441	698	1613	FQFFQIFPEYKNNDFYVTGESY AGKYVPAIAHLIHSNLPVREVKI NLNGIAIGDGYSDPESIIIGGYAE FLYQIGLLDEKQKK\YFQKQCH ECIEHIRKQNWFEAFEIL\DKLL\A DGDLTSDPFLTSQNVGTGCS\NY YNFLRCTEPEDQLYYVKFSLP EVRPAHPTLGN\QTFN\DGPIV* KVPCGEDTSTSPVKPW\LTEIM NNYRVLIY\NG\QLGHPSVAAAP DQSAPLMG\MDWKGPS\EYKK AEKK\VKIFKS\DSEVA\GYIR QVGDF\HQVIIRGGGHILPYDQP LRAFDMINRFIYGKGWDPPYVG
22314	52682	A	22442	1	258	
22315	52683	A	22443	366	848	
22316	52684	A	22444	1	585	ECLCVSTAVRIRHELKTMTEL LRGGSFEFKDMRVPSALVTLH MLLCSIPLSGRDSDSEQKIQNDI IDILLTFTQGVNEKLTISEETLA NNTWSLMLKEVLSSILKVPEGF FSGILLSELLPLPLPMQTTQVS LPYNMHLINDCSNTF*KASDSV KKQKPSSPFLPKRHKITG*GGD KTETSWSLRKYGGKNFK

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22317	52685	A	22445	625	2700	YIRGHSTPRKLWSMHLHVQAK LLQEIVRSFSGTTCQPIQHMLRR ICVQLCDLASPTALLIMRTVLD LIVEDLQSTSEDKEKQYTSQTT RLALLDALASHKACKLAILHL INGTIKGDERYAEIFQDLLALVR SPGDSVIRQQCVEYVTSILQSLC DQDIALILPSSSEGSISELEQLSN SLPNKELMTSICDLLATLANS ESSYNCLLTCVRTMMFLAHD YGLFHLKSSLRKNSSALHKLK RVVSTFSKDTGELASSFLEFMR QILNSDTIG\CCG\DDNG\LMGSR RGAHTSRTMSINAAELNQLLQS TEESPEDLFLELEKLDLEHSD DDNLYSLD**RGLKQMLESSG DPLPLSDQDVEPVLSAPESLQN LFNNRTAYVLADVMDDQLKS MWFTPFQAE\EIGTDLDLVKVD LIELSEKCCSDFDLHSEIERSFL SEPSSPGRTKTTKGFKLGKHKH ETFITSSGKSEYIEPAKKEFMLC PPRGRGRGGFGQGIRPHDIFR\ QRKQNTSRPP\SMHVDDFVAA E\SKEVVPQDGI/PSHPNRPLKVS QRISSRVGFSGNRGGRGAFHSQ NRFFTPPASKGNYSRREGTRGS SWSAQNTPRGNYNESRGGQSN FNRGPLPQL\RPLKFPTG*PAPK SLGTRAS*MVRGG\LGTFPGLS AKLAASGGSRGKFVSGG\SGRG
22318	52686	A	22446	2487	3161	TWWLHISIIIPGGKKSYSPRLGR GKRFATFVLLVGELCLTSYAP PSIHPILRSEAELNYSIFSKFLA PAGEFALPRSFDNCPRVRLRAL RLALLILLTFILCWTPYYLLGM WYWFSPH\MLTEVPPSLSHILFL LGLLNAPLDPSPSYGAFTLGCR RGHQELSIDSSKEGSGRMLQEEI HAFRQLEVQKTVTSRRAGETK GISITSI*S*QSM*EQNSKSLVP
22319	52687	A	22447	232	337	
22320	52688	A	22448	1	1449	
22321	52689	A	22449	1	2004	

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22322	52690	A	22450	3	1558	APARDRAGGGRRALPRLPAAS ARARGLTRALSRAMACRQEPQ PQGPPPAAGAVASYDYLVI SGGLASARRAAELGARA SHKLGTCVNVGCVPKKVMW NTAVHSEFMHDHADYG GKFNWRVIEKRDAYVSRLNA IYQNNLTSHIEIRGHAFVTS PKPTIEVSGKKYTAPHIL MVPSTPH*EPRSRGASL*ITSDG FFQLEEIVPAAASLVGARLPLSV EMAGIL\SALGSKTSLMIRHD\K VLRSFDSMISTNCTEEL EVLKFSQVKEVKKAL\SGL EAS MVTAVPGRLPVMPMIPDV DCL LWAIGGVPNTKDLNLKLG IQT DDKGHIIVDEFQNTNVKGI YAV GDVCGKALLTPVAIAAGRK LA HRLFYKEDSKLDYNNIPTV VF SHPPIGTVGLTEDEAIHKY GIEN VKTYSTSFTPMYHAVTKRK TK CVMKMVCANKEEKVVGIHM Q GLGCDEMLQGFVAVKMGAT K KAFDNTVAIHPTSSEELVTLR
22323	52691	A	22451	51	464	
22324	52692	B	22452	103	1184	
22325	52693	A	22453	52	148	
22326	52694	A	22454	1	3282	
22327	52695	A	22455	145	436	
22328	52696	A	22456	1	3622	MPGYRAGPFEEAFDREDERQIE CQGRGVDRKITGEHTTFSGRSG PDHELTLDSGKGCTSRMVPASA ASEDRRKLPPIVEDEGGPTRSRA CSSPARGSRPPSAIGCSPVAQA SDSAAGPARRTALQSLSSWLG Y QIDRHVPVYVFKSPLFSVIMAP KHKSSDAGNLDPRKRSRKVLPL SEKVKVLDLIRKDKKSYAEVA KIYGKNESSIREIVKKEKEIRASF AVSPPTAKVTATVRDKCLVKM EQALHLWVEE
22329	52697	A	22457	3	422	VVELRCQDKEGNPAPEYTWFK DGIRLLENPRLGSQSTNSSYTM NTKTGTLQFNTVSKLDTGEYSC EARNVSGY/PQVPGKRMQVDD LNISGIIAAVCGLGVCYAQRKG YFSKETSFQKSNESSKATTMSE NDFKHTKSFII
22330	52698	A	22458	1	208	
22331	52699	A	22459	122	321	

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22332	52700	A	22460	2	1169	HTPKTEQTPIPGLEDPPLGSQLR RRPGEGETDIPSRAVPPLPPLPT LCSFPAPQVQPPASCAPAAAGT LDLLRAAGCRPGKMARRSRHR LLLLLLRYLVVALGYHKAYGF SAPKDQQVVTAVEYQEAILAC KTPKKTVSSRLEWKKLGRSVSF VYYQQTLOGDFKNRAEMIDFNI RIKNVTRSDAGKYRCEVSAPSE QGQKPG\EDTVTLEVLGDVHVL APAVPSCEVPSSALSGTVVELR CQDKEGNPAPEYTWFKDGIRLL ENPRLGSQSTNSSYTMNTKTGT LQFNTVSKLDTGEYSCEARN VG*SEGPCETNASR*SQHKVGII GSR*S*LWALVDFPFVGLVYSYG SEKATFSKETSFQKSNSSSKAT TMSENDFKHTKSFI
22333	52701	B	22461	57	168	
22334	52702	A	22462	1	682	
22335	52703	A	22463	398	1465	GTFPPSGLITGKKRKALLGACD CTQIVKPSGVHLKLVRFSDFG KAMFKPMRQQRDEETPVDFY FIDFQRHNAEIAAFHLDRILDFR RVPPTVGRIVNVTKEILEVTKN EILQSVFFVSPASNVCFKCPY MCKTEYAVCGKPHLLEGLSLA FLPSLNLAAPRLSVPNPWIRSYTL AGKEEWEVNPLYCDTVKQIYP YNNSQRLLNVIDMAIFDFLIGN MDRHHYEMFTKFGDDGFLIHL DNA\RGFGRHSH\DEIPILSLLSQ CGMIKKNTLLHLQ\LLAQADYR LS\DVMMRESLLEDQL\SPVLTEP HLLAL\DRRLQTLRTV\EGCIV\ AHG\QQSVH*FDGPSGNSSGPR
22336	52704	A	22464	2	424	GRVGVSAVIVRAWITHKYSGR DWNVKWEENLLHAVAKNYTL LQTIPPFERPFKDHQVCLEWNM GYIWNLRANRIPQCPLN/DFRE DFHYNDTAGYFIIGGSRYVAGI EGFFGPLKYRRLRSLHPAQIFNP LLEKQLAEQIS
22337	52705	A	22465	23	323	
22338	52706	A	22466	3	287	LSVQMYAQAALDGDSQGFFNL ALLIEGTYERCWSHSNEESFS PCSLAWLYLHLRLWLGAILHSA LIYFLGTFLLSILIAWTVQYFQS VSGKDL
22339	52707	A	22467	1	348	
22340	52708	A	22468	1	738	

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22341	52709	A	22469	1	507	
22342	52710	A	22470	187	3682	SILCLLSPCVVQFGKPVVSILSS RSRHSPCTKKGWEGMRKHLHT RQGHK*VHV\KFP\SIMGLQGM DYFHPDISIFCNLAVIVRAWITH KYRGRDWNVKWEENLLHAVA K\NYTLLQTIPPFERPFKDQVC LEWNMGYIWNLRANRIPQCPL ENDVALLGFPYASSGENTGIV KKFPRFRNRELEATRRQRMDYP VFTVSLWLYLLHYCKANLCGIL YFVDSNEMYGTPSVFLTEEGYL HIQMHLVKGEDLA
22343	52711	A	22471	3	153	
22344	52712	A	22472	1	408	TEPEFPGRFRPRMAVMAP\RT LVLLLSGALALTQTWAGSHSM RYFSTSVSRPGRGEPRFIVAGYV DDTQFVRFDSDAASQRMEPRA PWIEQEGPEYWDEETGKVKAH SQTRENLRALRYYNQSEAGS HTLFPR
22345	52713	A	22473	1	823	MAVVAPRTLLLLLSGALALTQT WAGSHSMRYFSTSVSRPGSGEP RFSVAGYVDDTQFVRFDSDAA SQRMEPRAPWMEQEPEYWDR QTEISKTNQIDLESLRILRY NQSED/GPPPKTHMTHHPISDHE ATLRCWALSFPYAEITLTWQRD GEDQTQDTELVETRPAGDGT QKWASVVVPSGQEQRYSCHVQ HEGLPKPLTLRWEPSSQPTPIV GILAGLVLFGAVIAGAVVA MWRRKSSDRKGGSYSQAASSD SAQGSVDVSLTACKV

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22346	52714	A	22474	1	1162	NSRVDDFVAVMAPRTL\LLLLS GALALTQTWAGSHSMRD\FFTS VSRPG\R*EPRFIAVGYVDDTQF VRF\SDAASQRMEPRAPWIEQ EGPEYWDQETRNMK\HSQTD RENLRALPLTYNQSEAGS\HTL QMMFGCERGGSDGALSFRGLP PVTAY\DGKGFTFALNE\DLRS WTAADMAAQITQRKWETPPM WRS/EQEEAYLEG\QCV\DLRR YL\ENGKEDAAAQRTPPKTHMT HHPIS*P*RPL*RCW\AL\AFYPC GDHT*PWQRDG\EDQTQ\DEL V\ETRPAGDGT\HKWAAVVVP SGEESEITPANVQQ*RVLPKPLT LKM/WEPSSPAHPSPIVGHLLA LVL/LLGAFDHLKLWVAAVML KEGTAQVGKG*KIEKGGSYSSR LPSQ
22347	52715	A	22475	9	316	IPAMGLETEKADVQLFMDDDS YSHHSGLEYADPEKFADSDQD RDPHRLNSHLK\ILMPFVKTC MVLPSVQTIWKS\VDVIIAPLCT SVGRCFSSVSLQLSQD
22348	52716	A	22476	3	606	RPRTKAAMGLETEKADVQLFM DDDSYSHHSGLEYADPEKFADS DQDRDPHRLNSHLKLGFE\DI AEPVT\HSFDKVW\ICSHALFEI \SKYRM\YRSLTVFLGHSPWAFI CGEFSFATL\SCLAHLGF*WPFV \KTCLM/VFLPSVQTIWEEC*QM V/ISLAPLC\TSVG\RCFLFLFSLA TEPRNGILGPQVWRLGYCNTSF VIIT
22349	52717	A	22477	101	432	ATRDQLKAKPENLLGSISRDSG RTQEGIPARVPYPPPP/PTREPPQ ST*PGRNGLLGCLGGGAPRPG WLDSEAGGAPAFHCPG*CPRRH RRGGTRLKQLPPPTTVHDQPL
22350	52718	A	22478	794	1209	VKVDEVTVKHLGCQRCQWSRC PPSCSGTCLCCGAEAPCAAQPA WPPPPAAPPTPPAPPSD\NSSCT Q*PTPRCGT*DKDKGIFTLPKGH P*V*SLEHGFLKLGSCPPPPHA LVRPPQVRFNTPHGAEPQRDQL PQST

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22351	52719	A	22479	3	1041	GSNCPLRQADPGPPRHTLFMDF VAGAIGGVCGVAVGYPLDVK VRIQTEPKYTGIVHCVRDITYHR ERVWGFYRGLSLPVCTVSLVSS VSFGTYRHCLAHICRLRYGNPD AKPTKADITLLGCGLRTRPRVP DVAH*GGQSPLADADTGFLSSS GGFRLSALLAAPPMPVPPACP EPKYRGPLHCLATVAQVEEGLC GLYKGSALVLRDGHSAFYFL SYAVLCEWLSAPAGHFRPDVPG VLVAGGCAGVLA WAVATPM/D GIKSRLAANGQGGNGYRGLLH CMVTSVREEGPRVLFKGLVLN CCRAFPVNMVVFVAYEAVLRL RPGSAHHSRSPTRGATHQQLV
22352	52720	A	22480	38	453	
22353	52721	A	22481	287	413	DMDYRRGGWTVIHRKIGGRID FQVRV*DYLHGYADLLREFWL
22354	52722	A	22482	1	393	MPKLLKWNIEGGACWGNLW KLPNVERLCFSEATVFRSAAQC LVVGLGLLLVSRAESHEDAIEW RGDSSVNVIEDGSNAKDESKS NDTVCKEDCEESCDVKTKITRE EKHFMCIFHNVSQSLGTVCGEK GIDVN*NYTRRKTFFHVLQCS VTGNSLRGERH
22355	52723	A	22483	505	854	
22356	52724	A	22484	584	1009	FTQKDLFIPFEVMCDMDYRGG GWTVIQKRIDGIIDFQRLWCDY LDGFGDLLGDAFL*FL*KEDNQ NAMPFSTSDVDNDGCRPACLV NGQSVKSCSHLHNKTGWFFN KCGLANLNGIHHFSGKLLATGI QWGTGNQKQLTWQE
22357	52725	A	22485	1	3123	MSHRARPCAPFLFWMLGVKT EPAGQDRRKKARSRCIFRVHA SGLWGLRFPSVEWGKPSRDKA QLSESPQSVYLFAETALSAIVP GDGVAGGGGTGDGGPGAPYPG AVADMEELTIWEQHTATLSKD PRRGFGIAISGGRDRPGGSMVV SDVVPGGPAEGRLOTGDHIVM VNGVSMENATSAFAIQLKTCT KMANITVKRPRRIHLPATKASP SSPGRQDSDEDDGPQRVEEVD QGRGYDGDSSSGSGRSWD
22358	52726	A	22486	191	267	

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22359	52727	A	22487	2	609	PPRSEDPAKMAEVEHEEGSG PFRKFTLPAAVDL\DQRLDISY DQLEQPMQAVPVARPAAGGLN PGACGRKQ\HSPA*KRLQGPS KGGAAPCHKPEAGEDATLRD\ MIILPEMWGSMVG VYH\GKTF \NQVEDQGVCGRPCRLGWAGV A*CRRDQLTPSFALGLPQPEMI GHYLGESITYKPVKHGRPGIG ATHSSRFIPLK
22360	52728	A	22488	3	461	STISLYCGLKTCPKLTCAFPVSV PDSCCRVCRGDGELSWEHSDG DFFRQPATREASHCHRSHYDP PPSRQAGGLSRFPGARSHRGAL MDSQQASGTIVRFVLNNKHKH GQVCVSNGRTYSHGESWHPNL RAFGIVECVLCTPTPID\WPQGD *GKCRHGCPTLHYVD*LPLEKQ VILATALTMILHQADRLEVCPA FLGPEVTGELLWIPSKHQEPLC DLSSITNTSMDKCVFPMEGPIL MASPGTQTSGLLALWSVCYVL PPPSIVPQGD
22361	52729	A	22489	656	1495	TGDGELSWEHSDGDIQRPANR EARHSYHRSHYDPPSRQAGGL SRFPGARSHRGALMDSQQASG TIVQIVNNKHKHKGQVCVSNK TYSHGESWHPNLRAFGIVECVL CTCNVTKQECKKIHCNRYPCCK YPQKIDGKC*QNSTCFLIPEELP GQSFDNKG YFCGEETMPVYES VFMEDGETTRKIALETERPPQVI CSTFCLA\QGILQHFHIEKISKR MFEELPHGHFAFVCLLGQWKIF TEGEAQISQMCSSRVC RTELED LVKVLYLERSEKGHC
22362	52730	A	22490	1	477	
22363	52731	A	22491	1	294	
22364	52732	A	22492	56	4042	VFFTSMGEHLQKLIPASPACLA* IPQACQP*PPTPPAWQCRNLR/L AASRHQEPGEVGGPLGHGAE RILAVPVRTDAQGRLVSHVVA ATSRAGVRARRAAPVRTPSFPG GNEEPPGSHLFYNVTVFGRDLH LRLRPNARLVAPGATMEWQGE KGTRVEPLLGSCLYVGDVAG LAEASSVALSNCDGLAGLIRME EEEFIEPLEKGLAAQEAQGR VHV VYRRPPTSPPLGGPQALDT GASLDSLDSLRL

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22365	52733	A	22493	173	1148	QALGLPSLLAVLALSTTDRAF SAVISRSPQRTVSSSTRKEQRPLV FAFSALRLGTNACKMDGFCSTF LGAPGIRLKLTPAGTHKSERD RTATPTRHHEKRLFCSSLSIGRQ AEEAWRADHPLPESRLFGLVPL GGAAWCRLAGSFCVCSLRLPRP IELVRAASGALLGAVRRRNHGP PHCFSTATLLCKAYRGGHLTIR LALG\GAPNRPFYRIVAAQNK PRDGPFP*SKLGPPYDP/LLPPNS HGEKTPCPLN\LDRI\RHWIG\CG APLLSPMEKLLGLAGFFP\LHP\MMITNAERLRRKRAREVLLAS QKTDAAETDTEATET
22366	52734	A	22494	2	4985	AGATTALELPGQPSVTGVPELP GLPSATRALELSGQPVATGALE LPGPLMAAGALEFSGQSGAAG ALELLGQPLATGVLELPGQPGA PELPGQPVATVALEISVQSVVT TSELSTMTVSQSLEVPSTTALES YN/DERSMMSSYERSMMSYER SMMSPMAERSMMSAYERSMM SAYERSMMSMAERSMMSAYE RSMMSAYERSMMSPMADRSM MSMGADRSMSSYSAADRSM MSSYSAADRSMSSYTADRSM
22367	52735	A	22495	18	174	ALIKKHIF*IAAAKPTPPKSQV TLTKEFPVSSGSQHRKKEADSV YGEWVL
22368	52736	A	22496	3	595	IKKHIF*IAAAKPTPPKSQVTLT KEFPVS\SGPQHRKKEADSVYG EWPVEKNGEENKDDDNVFSS NLPSEVSRNIMYFSFFIPESAH FIVMLCLIWDSVSLFLRAGVKR QGRV*DGQM\KQPAASH\LTVT RM/CNSLCG\TKATKWRLRFA ENSVITSLPNIGPSLHLWEGSP WYSIPFSFPSLLLLKVGEVEFKR

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22369	52737	A	22497	3	5618	SSELPGPSVTPVPQLSQELPGLP APSMGLEPPQEVPEPPVMAQEL PGLPLVTA AVELPEQPAVTVA MELTEQPVT TTELEQPVGMTTV EHPGHPEVTTATGLLGQPEATM VLELPGQP VATTALELPGQPSV TGVPELPGLPSATRALELSGQP VATGALELPGLMAAGALEFS GQSGAAGALELLGQPLATGVL ELPGQPGAPELPGQP VATVALE ISVQSVVTTSELSTMTVSQSLEV PSTTALESYNTVAQ
22370	52738	A	22498	1	4685	MAPESHILASNTMETHILASNT MDSQMLASNTMDSQMLASNT MDSQMLASSTMDSQMLATSSM DSQMLASNTMDSQMLASNTM DSQMLASSTMDSQMLATSSMD SQMLATSSMDSQMLATSTMD QMLATSSMDSQMLATSSMDSQ MLATSSMDSQMLATSSMDSQM LATSTMDSQMLATSTMDSQML ATSSMDSQMLASGTMDSQMLA SGTMDAQMLASGTMDAQMLA SSTQDSAMLGSKSPDPYRLAQD PYRL
22371	52739	A	22499	291	7655	KRAPEKV DAYLYKQILLMKLP TKKSKKKHKKHKNKKKKKKKE KEKKYKRQPEESES KTKSHDD GNIDLESDFLKFDSEPSA VALE LPTRAFGPSETNESPAVVLEPPV VSMEVSEPHILETLKPATKTAE LSVVSTSVISEQSEQSVAVMPEP SMTKILDSFAAAPVPTTTLVLK SSEPVTMSVEYQMKSVLKS ESTSPEPSKIMLVEPPVAKVLEP SETLVVSSETPTEVYPEPSTSTT MDFPESSAIEALR

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22372	52740	A	22500	90	2166	SQHFGRLRRVDYLRTSKMQTSS SRSVHLSEWQKNYFAITSGICT GPKADAYRAQILRIQYAWANS EISQVCATKLFKKYAEKYSIID SDNVESGLNNYAENILTAGSQ QTDSKWKQSGLSINNFKMSS VQKMMQAGKKFKDSLLEPALA SVVIHKEATVFDLPKFSVCGSS QESDSLPSAHDRDRTQDFPES NRLKLLQNAQPPMVTNTARTC PTFSAPVGESATAKFHVTPFLG NVKKENHSSAKENIGLNVFLSN QSCFPAACENPQRKSFYGSSTI DALSNPILNKACSKTEDNGPKE DSSLPTFKTAKEQLWVDQKKK YHQQRASGSSYGGVKKSLGA SRSRGILGKFVPPIPKQDGGEQN GGMQCKPYGAGPTEPAHPVDE RLKNLEPKMIELIMNEIMDHGP PVNWEDIAGVEFAKATIKEIVV WPMLRPDIFTGLRGPPKGILLFG PPGTGKTLIGKCIASQSGATFFSI SASSLTSKWVGECEKMRALF AVARCQQPAVIFIDEIDSLLSQR GDGEHSSRRIKTEFLVQLDGA TTSSDRILVVGATNRPQEIDEA ARRRLVKRLYIPLPEASARKQI VINLMSKEQCCLSEEEIEQIVQQ SDAFSGADMTQLCREASLGPI AV/SQTADIAITPDQVRPIAYID FENAFITVRPIVSPKDL*LYENW
22373	52741	A	22501	3	523	FFFFPAFKMSKRG\RGWVPSG CRKFPDFPLGLPVGT*SNWCL TNT\GAQKTLY\ISREGGIKGTG LTRLPRLPVG\DMVMAHSSRK ANPELQKKGYP\VVIRQRKVI TVGKRWRCCFFIFED\NAGVIGD\ NKG\EMKGFAITG\PRAKECAD LWPRDCIQMLGSIWFSQYIL

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22374	52742	A	22502	3	946	GPSASVSFWLWSQQHSPRIRHP RPGERRRLLHGIPHTAEKQPA PLRPERRGRRRRPAGRRGCA* /GGARPCSSRSS*PASTPAPRAA PPCRSPCSARPTGPRTGAGRPR AP/HDGPPCATPDPRDQAS\PLPP RGPRPRVAPGSP\PEGHPRELPS EGSPGPRAPGQRHVRPPRAVLR PRGLRGGGCPGPAHPAPRLQRR RAPGEEAAPGPRWPGRPRGR AQALVPAARSRCFWKLWEAVF CLPVAAAPTTRRFGARQRPQLW LHGHKGGQVGEVSSHSAEGEEH LVPHAAPKRAREPHGRSGSPGG IASSWQDGS
22375	52743	A	22503	34	823	
22376	52744	A	22504	424	2339	LLRGTQLQSYAWTSVIPDIATELR DAPEKTLACMGLAIHQVTICLM HTFV*TFLMFAHTCTPCLTMVN VPHIHAR*GI*CIKVLLRMGH*R PFKNENAHRGTVVRVSNIKPLC TKMAFLCAACGEIQSFPLPDGK YSLPTKVIRSLTASLFILVKKAN QNTENISRQSIK*AIRLLHKRQA LDVTLLRKSIIILLDLVDSCVPG DVTITGIVKVSNAEEGRVQLF SLFVSQ**FINVHLF*DAPPHILV VGDPGLGKSQMLQVDNQSFVS CSFACKMR**FTSEFSPLSKDSS SGDFALEAGALVLGDQGERPK GIISDSGTF*KAFSFSVNFLSISL AKAGVVCSLPARTSIIAAANPV GGHYNKAKTVSENK*VSSNIY TFNVLNHFNSIRKRNSSHLLSEH VIAIRAGKQRTISSATVARMNS QDSNTSVLEVSEKPLSERLKV *MFLLLIQFGSV*MSKFSVWLIV DVYPRLSTEAAARVLQDFYLELR KQSQRNLNSSIPITRQLESIRLITE VCFFLWSCFFWLKGECCALTS LKYR*DKNFKLF*MKYQLSSHL KLGNRPNRSTAKRFISALNNVA ERTYNNIFQFHQLRQIAKELNIQ VADFENFIGSLND\QGYLLKKG PKVY\QLQTM
22377	52745	A	22505	73	214	
22378	52746	A	22506	1	503	

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22379	52747	A	22507	3	1000	ESKLEGKAAQDIKDEEPGDLGR PKPECEGYDPNALYCICRQPHN NRFMICCDRCEEWFHGDCVGIS EARGRLERNGEDYICPNCTIL QVQDETHSETADQQEAKWRPG DADGTDCTSIGTIEQKSSDQGI KGRIKAAANPSGKKKLKIFQPG PGPVPTQLPVLWQVLEIAVSRSI SAFTLLHCISCKVIEAPGASKCI GPG\CCHVAQP\DSVYC\SNDCIL KHAA\ATMKFLSSGKEQKPKPK EKMKMKEPKPSLPKCGAQAGI KISSVHKRPAPEKKETT VKKAV VVPARSEALGKEAACESSTP\S WAS\DHNYNA\VKPEKTAAPSP VTVV
22380	52748	A	22508	1	2330	MAAAEGKERAGGRASGRGRSE PPRPGARASDAGPGLREVEGT GEHSVVAAGTVPRVGVGAAAR GEERRAGLGECGPGLGCCVAG LISGKSVQAFSVGAGRWP LLRV FGGNVTFCSSVSWSLCAYTLPL GMDDKGDPSENEAPKAIKPTSK EFRKTWGFRTTIKREGAGD AEADPLEPPPPQQQLGLSLRRS GRQPKRTERVEQFLTIARRRGR RSMPSVLEDSGEPTSCPATDAE TASEGSVESASETRSGPQSASTA VKERPASSEKVKGGDDHDDTS DSDSDGLTLKELQNRRLRRKREQ EPTERPLKGIQSRLRKKRREEGP AETVGSEASDTVEGVLP SKQEP ENDQGVVSQAGKDDRESKLEG KAAQDIKDEEPGDLGRPKPEC EGYDPNALYCICRQPHNNRFMI CCDRCEEWFHGDCVGISEARG RLLERNGEDYICPNCTILQVQD ETHSETADQQEA*MGDLGDA\D GTDF\TSIGNIRSRLSRRPKGLK GRIKAAANPSGKKELKIF\QPV LEIAVSRSSAFTLLHCISCKVIEA PGASKCIGPGCCHVAQPDSVYC SNDCILKHAAATMKFLSSGKEQ KPKPKKMKMKPEKPSLPKCG AQPVQWLLLLSSWQLGTSSGL QVTLCQPPFTEHKWLKFSVLHG ETAGPPRAHRIRKLNKYWGAC HHCMPRLPLCLPGWPRSSPSL

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22381	52749	A	22509	149	2001	IQPPDPRNMTLAAYKEKMKELP LVSLFCSCFLADPLNKSSYKYE\ AGVGDSVGGRMKASGKTVLT GRERRAQADTV\DLNWCVISD MEVIELNKCTSGQSFEVILKPPS FDGVPEFNASLPRRRDPSLEEIQ KKLEAAEERRKRGPD LVIYEIH SPASLPFHSSDASVLGDIPPTTY SNISNSNQELLLMGGSPAPEQP HYEANILERSETTSYDNGSDAA QSFKVDGRCVFYINIPISNEGK VLWKAPEIATAKEPTWSPLGST GPRPCQILVVKSPVVHGKGPVL SGCGLDLLEQPTFALCFLVAGA VTITFLSCSGEEAREESAPKAMS ERQARRGGAEKQGAEGRGLQA VTTPELPYRMGLGA AFLKERS GVLPGSFICEDFTAALKQDEEIG TMKGKIREAYFKSFVPTPVAFS GGVMLPTGGTLEMCGNNFGGH KEQAGTVLPFAIALRVTPSAS LVLRLPLNDQAMLQGS LGLQL ADGLFWDLASIMDWTASRIQPS VSSSMKICQAFPGRPLAILLAQC AYVYGTWMKLEA IILTKLTQE QKTKHHLFSLPCCMPADISYRQ RCLGEPHCTVWNRHLESLVM MSNSTTSPCELLIFEVPPVAPE
22382	52750	A	22510	373	990	IQPPDPRNMTLAAYKEKMKELP LVSLFCSCFLADPLNKSSYKYE ADTVDLNWCVIFRHWK VIE\LN KCT/SGANSFEVILKPPSFDGVP EFNASLPRRARPIPWEEIPVRKL GRRLRERREVTREADP*KQLAE KR\EHEERGD SKRAFRETTFIK MAK/EKNLAQKMESNRENREA HLAAMLRLQEK\DKHAEVR KNKELKEEASR
22383	52751	A	22511	524	1107	LCSPKVLGLNASCQKNFLKQK KSIKTLSTSQ/YSVSGYSLARSE NAHPEFRMAMKD GELVIWDSV HPCYTVFHEQTET FSSLWSEYH DDFRQFLHIYSQDVACYGENLA YFPKGF IENMFFVSANPWVSFT SFDLNVANMDNFFAPVFTMGK YYTQGDKVLMP LAIQVHHAVC DGFHVGRMLNELQQYCDEWQ
22384	52752	A	22512	1	1413	
22385	52753	B	22513	1	2787	
22386	52754	A	22514	1	1638	

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22387	52755	A	22515	71	2421	YTVCYFLQAAEEDETQNQHDD SSSDSGTPSGPDFNYILNMSLW SLTKEKVEELIKQRDAKGREV NDLKRK\SPSDLWKEDLAGIC WRDWDKV\ENSPRNEEDVLAG MSGKSNLKGKVGKP\KVKKLQ LEETMPSPYGRRIPEITAMKAD ASKLLKKK/KGVLDLTA AVK\ VEFDEEFSGAP\VEGAGEEGIDS HQFPINK\GPKP\RREKKEPGS\R VRKTPTSSGKPSAKKVKKRNP WSDDESKSES DLEETEPVVIPR DSLLRRAADIHRLGGEGFDAGL TVFAPLFASPFPPRGAPYLKAA CQTPRSGIGATAISGEALKGAV SSGVDPRWASHLRVKLLEKSFS LQEIQSTEVLSQQA KTL SLLG EPKLSKQLTGTCIYRKTNLALC RGPA AAKSLFQGAVRNDRNKK KKETSKQECTESYEMTAELDDL TEKIRKAHQETFP SLCQLGKYT TSLQKGMQRCQILDSSVRPIV DVRPELQDSKLVLVQA AKCA PLADHCSKP VLLKEGPEDQKD QHDVGDCWNPECQTLFDQNN AAKKEESETANKNDSSKLSVE RVYHIKTQLEHILLRPDTYIGSV EPLSKVAEEGPAAVGGWK GWF GTESRKDPKPTGTEEVERGVW LSGREGRLLSPSVVTTMVL AEN SAIRFVGKPSSDTVPKPKRAP KQKKVVEAVNSDSDSEFGIPKK
22388	52756	A	22516	1424	4860	GRDRYGVFPLRGKILNVREASH KQIMENAEINNIKIVGLQYKKS YDDAESLKT LRYGKIMIMTDQ DQDGS HIKGLLINF IHHNWPSLL KHGFLEEFITPIVKASKNKQELS FYSIPEFDEWKKHIENQKAWKI KYYKGLGTSTAKEAKEYFAID MERHRILFRYAGPEDDAAITLA FSKKKIDDRKEWLTNFMEDRR QRR LHGLPEQFLYGTATKHLTY NDFINKELILFSNSD NERSIPSLV DGFKPGQRKV
22389	52757	A	22517	87	292	
22390	52758	A	22518	1	903	
22391	52759	A	22519	3	311	

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22392	52760	A	22520	1	1087	MPSAAWKRPVEGPATLRRPLGI AAASQCPSSPQPGCLIGAVNLK SSNRTPVVQEFESVELSCIITDS QTSDPRIEWKKIQDEQTTYVFF DNKIQGDLAGRAEILGKTSLKI WNVTRRDSALYRCEVVARNDR KEIDEIAIEVTIVQVKPVTVCVR VPKAVPVGKMATLHCQGE*GP PPA\HYSWYRNDVPLPTDSRAN PRFRNSSFHLNSETGTLVFTAV HKDDSGQYYCIASNDAGSARC EEQEMEVCHTDKRGGFPWSW AAPHLWFLQDTALLPAALTGW CSVSVAFPGAQCKLSVDLSFWG LEDGGPLLTAPLGSTPVGTLCR GSDPTFPFCTALADDLYESPTPA ANFCLDIQAFSYIL
22393	52761	A	22521	628	1117	FFISVINGQVSSVQRLSGVGPAC LSCGSANPGPPGTSPGAGAQR R*\PRADGSGSPQWPRGARVGG GRLGTGGRGRPGWRQVPRRLS PGFGR*GGTGPVGTSGKRG SRRRAPANDKAACWPRFPGQP AS*TGFRGERGVKGFSSWGSG WRAWEDGGTVH
22394	52762	A	22522	2	238	
22395	52763	A	22523	131	2891	
22396	52764	A	22524	131	3103	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSQSAEVLGELVLDGTA PSAHHDPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPDIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP

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22397	52765	A	22525	474	2527	SASPLGPYLLPSGAPERGSPGKE HPEERVVTAPPSSSQSAEVLGE LVLDGTAPSAHHDIPALSPLLPE EARPKHALPPKKKLSLKQVNS ARKQLRPKATSAATVQRAGSQ PASQGLDLLSSSTEKPGPPGDPD PIVASEEASEVPLWDRKESAV PTTPAPLQISPFTSQPYVAHTLP QRPEPGEPGPDMAQEAPQEDTS PMALMDKGENELTGSASEESQ ETTTSTIIITTTVITTEQAPGMQPP TPMGEGPPIVKHTWILDKCNVA TLQST*ALGPNEGIDSSDYPLL PLNNFLECTYNVTVYTG YGVE LQVTPGEYPDGELLSIRGVDGP TLTVLANQTLLVEGQVIRSPNT TISVYFRFTQDDGLGTFQLHYQ GRVRPRLFPRRPDSGDVTVMDL HSGGVAHFHCHLGYELQGAK MLTCINASKPHWSSQEPICSGM LQPQPHNATIGRVLSPSYENT NGSQFCIWTIEAPEGQKLHLHF ERLLLHDKDR*SSEGPQTNKSA LLYDSLQTESVPFEGLLSEGNTI RIEFTSDQARAASTFNIRFEGEG PWELYEPYIQNGNFTTSDPTYNI GTIVEFTCDPGHSLEQGPAAIECI NVRDPYWNDTEPLCRGERIHN ASAVAGVVLSPNWPEPYVEGE DCIWKIHVGEEKRIFLDIQ/FVS V*NGSVFSQEKVRPTPEWW
22398	52766	A	22526	131	3125	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSQSAEVLGELVLDGTA PSAHDIPALSPLLPEEARPKHA LPPKKKLSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPDPIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP
22399	52767	C	22527	161	352	
22400	52768	A	22528	2	368	LGSTHASVRINILSVDVLYFIFY RRDDNKDIDSEKEAAMEAEIKA ARERAIVPLEARMKQFKDMLL ERGVKQSLGEIFLCISINMS C*KVKSKVSAFSTWEKELHKIV FDPRYLLNLI

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22401	52769	A	22529	2	614	KDHRWESGSLLEREEKEKLFNE HIEALTKKKREHFRQLLDETSAL TLTSTWKEVKKIIKEDPRCIKFS SSDRKKQREFEEYIRDKYITAK ADFRTLKTKFITYS*FSERCE SESL*KMLGLAAPQTEVLCSSST E\RSKKLIQESDQHLKDVEKILQ NDKRYLVLDCVPEERRKLIVAY VDDLRRGPPPPPTASEPTRST
22402	52770	B	22530	201	296	
22403	52771	B	22531	1	1290	
22404	52772	A	22532	3	3369	SSSVMAERGGVGGESERFNPGE \LRMAQQQALRFRGPAPP\NA AMRGPPPLMRPPPPFGMMRGPP PPRPPFGRPPFDPMPPMPPPG GIPPPMGPPHLQRPPFMPPMSS MPPPPGMMFPPGMPPVTAPGTP ALPTEEIWVENKTPDGKVYYY NARTRESAWTKPDGVKVIQQS ELTPMLAAQAQVQAQAQAQA QAQAQAQAQAQAQAQAQAQA QAQAQAQAQAQAQAQAQAQA QAQAQAQAQAQVQAQVQA
22405	52773	A	22533	43	347	
22406	52774	A	22534	1	1776	
22407	52775	A	22535	3	433	PLAPNHLGGGAVVLGAESHAS KDVAIDMMDSRTSQQLQLIDE QDSYIQSRADTMQNIESTIVELG SIFQQLAHMVKEQEETIQR*DR VNSAHPWDPVHLLPSTQQVFIE HLFM
22408	52776	A	22536	304	1403	SRGNATGLRTRIRVSTWVSQRH RSCPLQLLAVAAATSSPLPPVVT LVPPPPDTMSCRDRTOEFLSAC KFAARPVKNGI\QTN*GQLLRW LVRQRSEIHPSLAKRHLGKDLS NTFAKLEKLTLAKR\KPLFDDK AGEIEELTYIIKQDINSLIKQIAQ LQ\DFVRAKG\SQSGRHLQTHS NTIV\VSLQSKL\ASMSNDFKSV L\EVDRDGTLLKQ\QREPEERQFS RAPV\SALPLSPTHRAGGA\VVL GAESHASKDVAIDMMDSRTS QQQLQLIDEQDSYIQSRADTMQN IESTIV\ELGSIFQQLAHMVKEQ/ ERETIQRIDENVLGAQLDVE\AA HSEILKYFQSVTSNRWLMDKIF LILIVFFIIFVVFLA
22409	52777	B	22537	147	506	

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22410	52778	A	22538	2	1397	AAPGNGLSPSSWRSELACEFQH ECTAEVRFGAVVCRGARSHSFY LEREILQ/PPGMSL/PENPVTPL RHLMYKIKSTGPITVAEYMKEV LTNPAKGYVYRDMLGEKGDF ITSPEISQIFGELLGIWFISEWMA TGKSTAFQLVELGPGRGTLVGD ILRVFTQLGSLVKNCDISVHLVE VSQKLSEIQALTLKEKVPLER NAGSPVYMKGVTKSGIPISW*S RICTDVPGKGSFYLAHEFLDV LPVHKFQKTPQGWREVFVDIDP QVSDKLRFVLAPSATPAEAFIQ HDETRDHVEVCPDAGVIEELS QRIALTGGAALVADYGHGDTK TDTFRGFCDHKLHDVLIAPGT ADLTADVDFSYLRRMAQGKVA SLGPIKQHTFLKNMGIDVR/L*R FF*INQMRPSVRQQLQGYDML MNPCKMGERFNFFALLPHQRL QGGRYQRNARQSKPFASVVAG FSELAWQ
22411	52779	A	22539	2	377	
22412	52780	A	22540	2	1427	
22413	52781	A	22541	2	568	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYVPVNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPQGFRDSPHLFGQAQAQ DLVHFSSPGTLVVQYMDLL ATSSEASCQATLDLLNFLANQ GCKRVGIALGVLTQTHGTPQP VAYLSKETDVAAK

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22414	52782	A	22542	1	1230	GPRGTGPKGKARSEKGC SL SHG PQTNKPLVVQKGQKMEQANHP VGLVISVVYKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIIMNMGN KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPI LGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLLSQIPEEA EWFP VLDLKDAFFCIPLHYDSHDSQF LFAFEDPTDHTSQLIWTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGLILARGTRTL GKERIQPILAYPHPKTLKQLWG FLQIT/GFCQLWIPR*SKI
22415	52783	A	22543	1	211	
22416	52784	A	22544	1	472	
22417	52785	A	22545	1	393	
22418	52786	A	22546	59	411	SWPSDKQTLVVQRGQKMEQA NHPDPTDHMSQLMWT/VLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSEASCQ QATLALLNFLANQGYK/LSRSK AQLCLQQVKYLCL
22419	52787	A	22547	43	236	TSSLLRKEDSAPSQGKSVVFTL TSQG*VPLWRTLQLQGPFFTPSS RK*LELSSANSQQHLGCPV
22420	52788	A	22548	1	1446	
22421	52789	A	22549	1	1521	
22422	52790	A	22550	2	689	
22423	52791	A	22551	1	64	
22424	52792	A	22552	636	1586	SNDRTEDDCGKHPFMSSPPATEP WVCLIEGQEIDFLDTGTTFSV LIPCLGRLSSRSVTIQGILGQPVT RYFSHLLSCNWETLLF SHAFLV MPESPTLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSPCNTPI LG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVP EEA EW FTVLDLKDAFFCIPLHSDSQFLF AFEDPTDHTSQLMWMVLPQRF RDSPHLFGQAQAQDLGHFSSPG

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22425	52793	A	22553	292	1493	SNDRTEDDCGKHPFMSSPPVTEP WVCLHIEGQEIDFLDGTTFSTV LIPCLGRLSSRSVTIQILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPPEAEW FTVLDLKDAFFCIPLHSDSQFLF AFEDPTDHTSQLMWMVLPQRF RDSPLHFGQAQAQDLGHFSSPG TLVLQYSEIAKTLYTLIKEMER ANTHLVEWEPEAETAfetLKQ ALVQAPALSPTGQNFALYVIE RAGIALGVLTQTHRTPQPVAY
22426	52794	A	22554	2	307	
22427	52795	A	22555	3	400	
22428	52796	A	22556	2	78	
22429	52797	A	22557	395	1336	SNNRTEGASSCH\PLTEPQVCLT IEGQEIDFLDGTAFSVLISCPA WGTGQDSVSKKNEKKRKEKA KGNHQANAEAKIAARWNPSLE IPTEGPLVWNNPLQEIKPQYSLT ETEWGLSQGHSFLPLGWLMT EVKVLIPASQWKILKTLHQTF QMGIENTQQMAKSLFTGPNLL WTIRHVVKACEVCQRNNPLVH HKAPLGEQRIGHYPGEDWQLD FTHMPKSKGFQYLLVCVDFT NWIEAFPCKIEKAQEVNKLVIH ETIPRFGLPQSLQSDNDPAFKA MITQGIFQGAKDTISPSLCLEATI LREGREGN
22430	52798	A	22558	244	638	GPLNPTFLGPPCGLGGKLVFLL LRQ*VQLFRSAGSRDRCGFLDR ERNKTNQNCGKQAKKSPKDHK NPRAVGYPFNL*QEGNLAQP GYMSPSPSLI*SRSRQTWGSFQ MILIGTKRNRPKRKSEIRERLQP
22431	52799	A	22559	210	600	RGKRTWRERRNGWSRGFCPLP LTGSWLISRESPLACLGEGLG VPGM*DLPHAWPTTLMCPCLV GSWSH*LQE*SHGPSQ*VLQLL RWCVWSLFLLMFGCVWSFFLL VSSWSRWLRSEATDLCGECYSS

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22432	52800	A	22560	2746	5211	ETSCPLVRVHYAEAITGRCTAP EDEGSLGQKPPARRSNNRTEGA WGKRQLMSSP/STEPVCLTIEG QEIDFLLDTGAAFSVLISCPGRL SSTSVTIQGILGQPVTRYFSHLL SCNWETLLFSHAFLLMPEPTG LLGRDILAKAGAIHYMMNMGKLL PICCP\LLVEGINPEVWALEGQF GRAKNARPLQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPI LGVQKP NGQWSLVQDLRLISEAVIPLY VVPNPYTLLSQIPEEAEWSWAL TFKDAFFCIPLHSDSQFLFAFED PTDHTSQTGTVLPQGFRDSPH LFGQALAQDLGHFSNPGTLVLQ YVDDLLATSSEASCEQATPDL LNFLTNGYKVSRLKAQLCLQ EVKYLGLILARGTRALSKE*IQP ILAYPHPKTLKQLRGFLEITGFC *LWIPGYSKIARPLYTLIKETQR ANTHLVEWEPEAETTFKTLKQ ALVQAPALSPTGQNFSLYVRE RARIAGVLTQTHGTPQPVAY LSKEIDVVAKGWPHCLRVVAA VAVLASEAIKIIQGKDLTV*TTY DVNGILGAKGSLWSDNCLLR YQALLLEGPVLQICTCMALNPA TFLPEDGEPIKHDCQHIIVQTYA ARDDLLEVPLTNPDNLTYTDGS SFVengi/RKVSDVTILESKPLPP GTSQAQLAELVALTWALELGKG
22433	52801	A	22561	903	4440	DHPGHIHSSPCHERPNNVSTLPF LPGEQHPILLPPRNC PGDKILEE NFRYNNYKRTMMSFKERLENT VERCAHINGNRPRQSRGFGELL STAKQDLVLEEQSPSSSLSLENS LVKDYIHYNGDFNAKSVNGCV PSPDAKSISSEDDL RNPDPSPSS NELIHYRPRTFNVGDLVWGQIK GLTSWPGKLVREDDVHNSCQQ SPEEGKVEPEKLKTLTEGLEAY SRVRKRNRNGIKVPPRSPRSTIG SPRPSMPSSPS
22434	52802	A	22562	1	501	

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22435	52803	A	22563	1688	2038	SATHGLSDSCYWLVVSRAIGRN NLSPASPASIIHALVFLAEPQLF QPRILGLIDEESGHEGGRPAAKT RKLSGPWSRPAAFMSTLLINQP QYAWLKELGLREENEGVYNGS WGGRGEVITTYCPANNEPIARV RQA\SVADYEETVKKAREAWKI WADIP\APKPKEKLV RQIG\DAL REEDSKLLRKPWCPLEDWGKIL LEGVGEVQEYVDICDYAVGLS RMIGGPILPSERSGHALIEQWNP VGLVGIITAFNFPVAVYGWNN AIAMICGNVCLWKGAPTTSLIS VAVTKIIAKVLE\DNK\LPGAICS LTCGGADIGTAMAKDERVNLL SFTGSTQVGKQVGLMVQERFG\ RHYQNWRSLELGGNNAIIFAE DADLSLVVPSALFACCGEQLGQ RCTT\SRGRLFYYMESIHDEVFK QTLKRAYGTRSRVG\NPW\DPN VLYGAISHQGRQLSMFLGAVEE AKKERLAQWVYGGKVM DRPG N\YVEPTNVTSLDHDASIAHTE TFAP\LYVFK\FKNEEEVF AWE* WK*NRGLSS*HSLPKDLGAESF RWLG P\KGTQT CG\IVKCQPFPT KWGLRLGGA\FGGEKAHLVVA RESGQ*C/WGKQYMRKVYLV L FNYS\KDLPSPGPQG\IKFQ
22436	52804	B	22564	1	1434	
22437	52805	B	22565	1	1185	

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22438	52806	A	22566	1	2450	GQACHASSSPLKGSRGSPPNFEI LYGPIFEDSLAPD*PKVIAGQIT LRDAVTGPISSPNEAGKIYQLKP NPAVLICRVRGLHLPEKHVTW RGEAIPGSLDFALYFFHNYQA LLAKGSGPYFYLPKTQSWQEA AWWSEVFSYAEDRFNLPRGTIK ATLLIETLPAVFQMDLHLALR DHIVGLNCGRWYIFSYIKTLK NYPDRVLPDRQAVTMDKPFLN AYSRLLIKTCRGAFAFGGM AAFIPSKDEEHNNQVLNKVKA DKSLEANNNGHDGTWIAHPGLA DTAMAVFNDILGSRKNQLEVM REQHAPITADQLLAPCDGERTE RKFNALMESEKGQSQNLWKFA VYSGLRHGELAALAWEDVDLE KGIVNVRRLTILDMFGPPKTN AGIRTVTLQPALEALKEQYKL TGHHRKSEITFYHREYGRTEKQ KLHFVFMPRVCNGKQKPYYSV SSLGARWNAAVKRAGIRRRNP YHTRHTFACWLLTAGANPAFIA SQMGHETAQMVYEIYGMWID DMSDEQIAMLNARVMVYDVA SGNALFISELGPLPENVTWLSPE GEFQKWNGTAWVKDTEAEKL FRIREAEETKNNLMQVASEHIA PLQDAADLEIAEEEEISLLEAW KKYRSIPLCSKVVTMMFDDRP GCPVGFPMWGRGGFDRMPPG WGGRPMPPSRDMSPHRGPPPP
22439	52807	A	22567	1	941	MIPNVQGPMRGLEGPNYIFIKIS KNRRYTMAVTSVGLASSLCRV VRPCRAPAGVVSARGSPDDEWL FCPQARIQQQDID/NGTLPDFIS ETASIRDA/DWKIRGIPADLEDR RV/EITGPVERKMVINALNAIF MADFEDSLAPDW/NKVIDGQIN LRDAVNG/TISYTNEAGKIYQL KPN/PAVLICRVRGLHLPEKH/V TWRGEAIPGSLFDLA/LYFFHNY QALLAKGSGP/YFYLPKTQSWQ EAAWWS/EVFSYAEDRFNLPRG T/IKATLLD*TLAGGFQMVDP LGG*TGPDHRLRYIKVENIPKV GEEGDAETTGGTAV
22440	52808	A	22568	2	393	
22441	52809	A	22569	1066	1824	
22442	52810	A	22570	2	165	
22443	52811	A	22571	3	902	

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22444	52812	A	22572	1	2034	
22445	52813	A	22573	176	873	RLFGEMSKLN/HNLSEVMSKLE KQHSSKV FVVKRLSSSRSLVI SPPVRTSTVSSPLTSPTSPSTLSS KSKSESVSATEDLAPDAAQGED NSEIKELLEDEEIGKEGSEASSS EEEEPLLCNGPSQAQPSPIIESA RSQEEVPPSPALSPGGALSPSG HPLSSAAEVVLRTRTAVPQAKG NNVVITSYMTNRGFFEDKKATF APSFLMNIKGKNTSVVKNSILE QGQLTVN
22446	52814	A	22574	1	1890	
22447	52815	A	22575	2	1279	LSVFPRVRNFTTQAECH/KLFFK VLKNFLIAGGGVHESSKRAS*T LQFIYY\SEWYGHEELKAIVWN NDLLWEDYEEKLADQAVRTM EIYVAQFSEIKERIAKRGRKLV YDSARHHLEAVQNATKKDEAK TAKAEEEFNKAQTVFEDLNQEL LEELPILYNSRIGCYVTIFQNISN LRDVFYREMSKLNHNLYEVMS KLEKQHSNKVFVVKGLSSPSTL SLKSESVSATEDLAPDAAQG EDNSEIKELLEEEIEKEGSEASS SEDEPLPACNGPAQAQPSPTT ERAKSQEEVLPSSSTTPSGGALS PSGQPSSSATEVVLRTRTASEGS EQPKKRASIQRTSAPPKPEKPV RTPEAKENENIHQNPEELCTSP TLMTSQVASEPGEAKKMEDKE KDNKLISANSSEKYIFQRPSVLI

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22448	52816	A	22576	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKAL*KL KAVETKDERFEQSASNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYEEKL\ ADQAVRTMEIYVAQFSEIKE\RI AKRGRKLV DYDSARHHLEAVQ NAKKKDEAKTAKAEEEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPTSPSTLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQPSPTTERAK\SQEE VLPSSTTPSPGGALSPSGQLSSS ATEVVLRTRTASEGSE\RPKKT ASIQRTSAPRRPPPPRATASPRP CSGNIPSSPTASGGGSA\TSPRAS LGTGTASPTSLEI*PNPE\PEK PVRTPEAKENENIHNQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNLTAPEPQEEVSTSE
22449	52817	A	22577	2216	2568	RPSLGLGM/C/TIWQ/TSLA/GKH RRTIETHDDYRISLEQGTGLE PPLNALTAISKKIGCNGFFPFQIR PGKNETDGRMFSPAIGIVEDPV TGNANGPMGAWLVHNNVLP DGNVLRVKGH
22450	52818	A	22578	108	532	WGSKGNLLYSHQTHSVSHQFS LVACCLELEYSPFSFPYACLLSS LMRLEKHQELNLWPAHQRSRMR HPQDTLVVFS/HHGRVLL*DKT SRGTIRQQHSRFTKICCSAATAA VTQANRVWSGPLANSNRPAAE GPVLA AFMGWL
22451	52819	A	22579	1	1125	

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22452	52820	A	22580	1	985	MCARGSLWGCYSGLERKCEAA LPDRVVSSKSACGAVSQDLLQ AQRRAGPPSWLYADPVHTGT IECGGHWCLNAALLDFQSPQRL LTYLHCGLQRPME SDPPELAPM VHHQEGIYLNIRKAMYDKPTA NKL NWDKSNVSSLITGTRQEET TANGTTFATHLQFFIQIPAVPR KTLLNRADYYFPEHNPSLTLVI NRRITKFSEPNWEAPPSRGRLTP HTAGYSSETKIPEERSDSSIRGS RKSAVLQPLLLDSQANRVWSG PLANSNRPA AEGPVC*LWWVT LHGPKATMQVCQQLW
22453	52821	A	22581	294	934	YPPSPAELTVCLRLQLQLRDVL YCIAYPSGPGVKPFRGNSA/G/V VFPADNLSEAQMQLI/ARELGH SETAFLLHSD/DSDVRI/RFTPTV EVPI/CGHATVA AHYVRAKVL/ GLGNCTIWQTS LAGKHR/VTIE KHND DYRISLNALTAIS/KKIGC NGFFPFQIRPG/KNETDGRMFSP AIGIVE/DPVTGNANGPMGAWL VH/HNVLP HDGNVLRVRQ*GPR
22454	52822	B	22582	1163	5585	
22455	52823	A	22583	2	429	AACAAAMSLV IPEKFQHILRVL NTNIDGRRKIAFAITASSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSVNLLSNGLYL/VKG VGRRYAHVVLRKADIDLTKRA GELTEDEVERVITIMQNPRQYKI PDWFL
22456	52824	A	22584	84	424	GVHAASDKPCWITTSQTPDVQ HRW/WLLISSML*TAPNRRSDK AFTPHPTNHAGSQLRKHPTCSI DGVIDIFHAVNTFVQHHMEETL KAFHVTGHHILIARHGLGVGKE NTEHAANVVNDQRNSGFFCRF QQTFQCQTCCQLIQR FVNARLRD FISC
22457	52825	A	22585	88	381	IQVLANGLDNKLREDLERLKKI RAHRGLRHFWG*VGGLISLPTS TQHSSYSLFFPNLLFLLCMTCD SSLFTCSLRVRGQHTKTTGRRG RTVGVS KKK
22458	52826	A	22586	355	699	FIDTTEAGSHFLYALVRFAATIT TITDDGARRLRTLFRQQADLV SVSKSGFFTADCTHTNALIDVV RTIFNNAVF*NPGFVIARLKIEIA IIKATFGQLTEDREQVLMFQAV RR

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22459	52827	A	22587	1389	1532	SVLPGRPDARQYRQTRQSW*R WSLRLRGSYPVAGRSLRHRQ TERF
22460	52828	A	22588	1	427	LVHQQWIQTKKSLIYPFCHSP SQRVVEVAALDQWLAMLYPR VEHQA VLA VVVVVVVGPLVVRP YHTRRDAVRLLRQPAVFIVAV DIVRILRDAVIRPHCECTVRV\R SGSGSRLPAGSVAYGMRMSRS GARVRTLSILPVAL
22461	52829	A	22589	1	915	
22462	52830	A	22590	1166	1321	
22463	52831	A	22591	813	977	
22464	52832	A	22592	3485	4237	
22465	52833	A	22593	1	499	ARAAACAAAMSLVIPEKFQHIL R\VLNTNIDGRRKIAFAITAIG VGRRYAHVVLRKADIDLTKRA GELTEDEVERVITIMQNPT\QYK IPDWFLNRQKDVKD GK\FQPGS *ANGLSTTKL\RENLKPLKEDSG PIKGLRQLP/WGLRVRGQHTKT TGRRGRTVGVSKKK
22466	52834	A	22594	1	1197	
22467	52835	A	22595	1	1905	
22468	52836	A	22596	37	514	WTWWLRICYENRHRHCHLLQQ LPTSPHQHAVA TPTTVAVPTAP AATPPVVVAVVVAPVVVVVVP VVPVVASVPFVEPGSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSL RKT VVAHVFGERTFDVVI WMTDGWPLYESRPAFTGRDC VDDAFFAVAGV
22469	52837	A	22597	1	471	
22470	52838	A	22598	2	323	SRIQPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAYDSL RKT V VAHV/FGERTIRT LTRRLFRCLR SSHDLVSSPVSHRRRRAGSRQR HRRARGGENVEYQWGALRHG
22471	52839	A	22599	2033	2310	ARYVGNAGCTGGALFGRSQT REAVG/ERRLAESRDVAALDTP CDPEIKMAEWMQTLKETGSTS GHIVTRRISVRISHVTPGPASQD GPDVQQR
22472	52840	B	22600	1	4891	
22473	52841	B	22601	7	1233	
22474	52842	A	22602	193	492	
22475	52843	A	22603	1	486	

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22476	52844	A	22604	62	443	RSDRLLIHGFSFPAMGFRRLRKT VVAHVFGERTMATLGRMLMSLL SPFDVVIWMTDGWPLYESRLK GKLHVISKRY\TQRIERHNLNLR QHLARLGRKSLSFSGTACCG HCLTRDIPMLHHQGNQLF
22477	52845	A	22605	971	1444	SMGSGDMRSSPSRAAALRQLPR PFRQLAVRMEMISRFSAKEQT KSLRKWRKAKSIF*SVAQTGFN VLVCTTHIETGIDSRQPTLLSLNA RITSVCAAAPVTRSRRTFASSGY AWLLTPHPKAMTTDAKNVLKQ LPRWKISGQVRAGTARSGDSRR W
22478	52846	A	22606	1	1047	
22479	52847	A	22607	318	598	LTGFRRLCDLRFGGGAVRSVLA RSREFILQH*FRRIVTGSMGRSL VPSAPLR/PSIVLVLFKAW*LV KTQRKMHVVSIVQKKASCWYP LLGCL
22480	52848	A	22608	1	2652	
22481	52849	A	22609	1	852	
22482	52850	A	22610	1	807	
22483	52851	A	22611	1	1740	
22484	52852	A	22612	1	3144	

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22485	52853	A	22613	173	1983	PVQNGSSPLGALPGAPLIFGPSV PAISRPGSCSPEWPTLDTSGYSA PR/WLFTA YAGSEAVFAHVFGD ALGDAGLLMSLLSPFDVVIWM TDGWPLYESRLKGKLVHISKRY TQRIERHNLNLRQHRLARLGRKS LSFSKSVEQHDKLESPLGQIDKS LDEASLSLRAGSLRTITHILLPLL RPAILSALIYSFVRAITTVSAIVF LVTPDTRVATAYILNRVEDGEY GVAIA YGSILIVVMLAIIFIDWL IGESLLSRFEKTVDHDSQSRLPA EGSILSQDISGVKLFSLTLPARG YVPIRAPCPFLCASYRFFCVARQ QGLDAALIDAPLAVDALTPLSE LLSHVGQAPCSVPVDEDDQY VGIISKGMLLRALDREGGVRVP VDYILNGFHPLLLGMPAPLAIIV FALIACRFPGSNGRIRRSRRIRH LHKMPDATLSASYQAYVRHQT NVTALVLRSSHFRKDRHCWG FVFLQQPILRATGQFEIQTFRYL SVFSVQRHKTNGKTALMSGNV ADKAVNRATGPTACVWLFSLR NSSMVTTRFCGLCEWADQQGA RPARISENGKRGYSYLYDVHM GAQSGETRGRQGEYASKPPSRE
22486	52854	B	22614	1	2149	
22487	52855	A	22615	1	1815	
22488	52856	A	22616	2014	3411	
22489	52857	A	22617	1	922	MVICQPINGGWQWPPSTGTDP APYFRIFNPTTQGEKFDHEGEFI RQWLPELRDVPKGKVHHEPWK WAQKAAAPPQTRLHSTPTTIPH RVPGHTPNLKPIWEVDLPKFSH KATSHATDKPSDTTQNDQIVIA YMEPPEIVHETTTSTHPSLYIIL KRQTREL RPQS VTSRIQPGSDVI VCAEMDEQWGYVGA KSRQRW LFYAYDSL RKT VVAHVFGERT MATLGRLMSLLSPFDVVIWMT DGWPLYESRLKGKLVHISKRYT QRIERHNLNLRQHRLARLGRKSL SFSKSVELHDKVIGHYVLNIKH

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22490	52858	A	22618	1458	2185	YGHEWRWMPGNRPH\YGRWP QHDFPPFKLRPQSVTSRIQPGS DVIVCAEMDEQWGYVGAKSR QHWLFYAYDRLRKTVAHVFA GERTMATLGRMLSLSPFDVVI WMTDGWPLYESRLKGKLVIS KRYTQRIERHNLNLRQHRLARLG RKSLSFSSKSVKITSGPTTNATP GTQKTATDKRGGKKLPQIPGP ISRIASGAINTISIGLRKFLVTA GVMLSTQRSIYDRHQVITSAGIT
22491	52859	A	22619	493	1518	
22492	52860	A	22620	963	1597	
22493	52861	A	22621	1	3052	MATDSVGLNCTPAPHARDVLL WRPSSLPVSTSCVFLGRIGDVS DESDDKTEAPTPHRLEKAREEG QIPRSRELTSLILLVGVSVIWF GGVSLARRLSGMLSAGLHFDH SIINDPNLILGQIILLIREAMLAL LPLISGVVLVALISPVMLGGLVF SGKSLQPKFSKLNPLPGIKRMFS AQTGAELLKAILKTLVGSVTG FFLWHHPQMMRLMAESPITA MGNAMDLVGLCALLVVLGVIP MVGFDVFFQIF
22494	52862	A	22622	1	1233	MANDLPHSNSGDGQKPSSPDF TAPLLADPTVGFLPNDAELFIF LTEITEITPCRVTDQVLVTLHE KKGDVALVPYDHRGFGSFIGE DRSYICKTTIGDREVDSDAYYV YRLQAVPPVQLLTGWCVTAKA PPDISAISALTAVKHGNCSSLTP LLNPPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAY\DSLRLAR RVVAHVFG*RTMATLGRMLSL LSPFDVVIWMTDGWPLYESRL KGKLVISKRYTQRNERHNLNL RQHRLARLGRKSLSFSSKVELHD KPSPQHREGVKDVMRFNEPMY PLESRPLYVCHLRNGAQASGR RCQLPMGCACHPVSQRNDRPN RRPERHATRKTTTRQRQONSRO HKQTQKKAKPNKRRATERGKG PQKAERPKRHTHCFLKLQ

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22495	52863	A	22623	3	1386	HEASSPLAMASLTVKAYLLGK EDAAREIRRFSCCSPEPEAEAE AAAGPGPCERLLSRVAALFPAL RPGGFQAHYRDEDGDLVAFSS DEELTMAMSYVKDDIFRI*IKE KKECRRDHRPP\CAQEAPRNMV HPNVICDGCNGPVVGTRYKCS VCPYY\DLCSVCEGKGLHRGHT KLAFP\SPFGHL\SEGF\SHSRWL\ RKV\KHGHF\GWPGW\EMGPPG\ NWEPTFLPRAG\EARPGP\TAES ASGPSEDPSVNFLK\NVGESVA\ AAFSPL\NFEVDIDVEHGGKRSR LTPVSPSSSTEES\SSQPSSCC SDPSKPGGNVEGATQSLAEQM RKIALESEGRPEEQMESDNCSG GDDDWTHLSSKEVDPSTGELQ SLQMPSEGPSSLDPSQGGNPQ GWKEAALYPHLP\PEVEPAA*F ESLSQMVPWGF*\LKGGWVH QGSCRPRNYDI\GAALDTPVIQ
22496	52864	A	22624	1032	1127	FYAKAEAGDRTVA*PHKPKMF LSIHHRVAKI
22497	52865	A	22625	121	561	VFPGLGSLVDICGSRVPFPWV VPAVLPVQFVQRLPRFFRCPPV LVTSVIRSISTLIQALGSSPFARR YWGNLG*FLFLGVLRCSSTGS PH*PMNSVNDVSKHT/EVTPF GN\PGNNGSYHLTDAYRRLARP SSPLTPGHPPLYG
22498	52866	A	22626	243	454	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22499	52867	A	22627	3	640	
22500	52868	A	22628	236	410	
22501	52869	A	22629	116	359	

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22502	52870	A	22630	276	1905	LFLYSSHGQYGCPCSATDGVV RNGKSTAGHQRYLCSHCRKTW QLQFTYTASQPAGQ*RTAIATVI CCNNCQRRHTNSRCHTDNCR ADSASSHATSGSSSRGCAGSGR CGASSTRCLGPVCCFRGSKRS WRRQHEGHKDCRKLVFHNFSFI HRMDNTAVPPVQLLTGWCVTA KAPPDISAISALTAVKHGNCSSL TPLLNPPGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLRLK TVVAHVFGERTMATLGRLMSL LSPFDVVIWMTDGPWPLYESRL KGKLVHISKRYTQRIERHNLNL RQHLARLGRKSLSFSSKVELHD KQQLDAALIDAPLAVDAQTP LSELLSHVGQAPCAVPVDED QQYVGIISKGMLLRALDREGGV RVPVIYPKRFRTTDCMPLSLG TCIREIEAEFPDPIFRRSVVYICE HNTNGAMGIIVNKPLENLKIEGI LEKLKITPEPRDESIRLDKPVML GGPLAEDRGFILHTPASNFASSI RISDNTVMTTSRDVLETGTDK QPSDVLVALGYASWEKGQLEQ EILDNAWLTAADLNILFKTPIA DRWREAAKLIGVDILTMPAQD GTPDWNIIERLLKEWQPDEIIVG LPLNMDGTEQPLTARARKFAN RIHGRFGVEVKLHDERLSTVEA RSGLFEQGGYRALNKGKVDSA SAVIILESIFYEQGY

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22503	52871	A	22631	399	2337	PEVQGLQQAGAAARRPGVGLA APRVVCEGRLRGSLQSR LCPG ASV*ATDGVVRNGKSTAGHQR YLC SHCRKTWQLQFTYTASQP AGQ*REKEEKEEVEEEEEEEKK KRRREGEKEEKEEKEKEKKKK FKKKKKKKKKKKKKKKKKKKK KKKKKKKQLSLVTVMSSQQCQL WRNEARTTGACLPSTVSAAAP PIVSTTVTAFAAATLAKGDLRS RASSKQVPLLVLVWVWPHPG WFKAGSVALGSSPGCVLELL CKLLTGWCVTAKAPPDISAISA LTAVKHGNCSSLTPLLNP PGSD VIVCAEMDEQWGYVGAKSRQ RWLFYAYDSLRTVVAHV FGE RTMATLGR LMSLLSPFDVVIW MTDGWPLYESRLKGLHTQER KARSKQK DADTAPPIQVGTQ TPQTVHAARDTRQASPRASKIS QHRQADGDKRQTRHAE AQAT RTHTGRRKTIKETATQQAYADE QTRRTARTHRR TARHTAAHTH RTRVAARQTTEKDNEQSDTQPP TQKTPSATATAHTPRRTETTTNI VQARHTSARERNHTRQH QATR RETTINAHTNTPHYHAEHTQSR SQQTTSTERPTTDSSTTINNN HTPRTVRDERRMTQHKHPSRA STTTNR TTTTGAYQHTQRDTRD TRRDTHEDTTTQQPHTTTPTAN EAA YTAHTTKTDDHRHTADDT
22504	52872	A	22632	103	313	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22505	52873	A	22633	620	832	

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22506	52874	A	22634	453	1047	AADDRGHLRPTDGLLRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAGQ*RVGTGTSERREQUIQ RLRQQGSVQVNDLSALYGVST VTIRNDLAFLEKQGIAYRAYGG ALICDSTTPSVEPSVEDKSALNT AMKRSVAKAAVELIQPGHRVIL DSGTTTFEIARLMRKHTDVIAM TNGMNVANALLEAEGVELLMT AGICALLTGCCVTAKAPPDISAI SALTAVKHGNCSSLTPLLNPPG SDVPVCAEMDEQWGYVGAKS RQRWLFYAYDSLRTVVAHV GERTMATLGRMSLLSPFDVVI WMTDGWPLYESRLKGKLHVIS KRYTQRIERHNLNLRQHRLARLG RKSLSFSSKVELHDKVIGHYLN GDFLQSTLREAPLIPHTREHP
22507	52875	A	22635	1089	1686	TSPGYWRANSTDPDGRYCRTG TSGGVCHALSSLRCPSCSATDG VVRNGKSTAGHQRYLCSHCRK TWQLQFTYTASQPAGQ*RFLSK QEKTLINQLASEEQQKVTSRL SDALRNGRVWQLAHYLTIQVA VYGLIFFLPTQVAALLGTKVGF TASVVTAPWVAALFGTWLIPR YSDKTGERRNVAALTLLAAGIG IGLSGLLSPVMAIVALCVAAGF IAVQPVFWTMTQLLSGTALAA GIGFVNLFGAVGGFIAPILRVKA ETLFASDAAGLLTLAAVAVIDR RGTSNRLRNTMIALLSNPFKE RLRKGEVQIGLWLSSTAYMA EIAATSGYDWLLIDGEHAPNTI QDLYHQLQAVAPYASQPVIRPV EGSKPLIKQVLDIGAQTLLIPMV DTAEQARQVVSATRYPPYAVH PVQLLTGWCVTAKAPPDISAIS ALTAVKHGNCSSLTPLLNPPGS DVIVCAEMDEQWGYVGAKSR QRWLFYAYDSLRTVVAHVFG ERTMATLGRMSLLSPFDVVIW MTDGWPLYESRLKGKLHVISK RYTQRIERHNLNLRQHTGTGW DGSRCRSQKSGGAA
22508	52876	A	22636	91	200	SGHAFQYLLMTLKVLPVASVSI SCPS\CSATDGVVRNGKSTAGH QRYLCSHCRKTWQLQFTYTAS QPAGQ*RGGA

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22509	52877	A	22637	2649	3270	GAPVASVSISCSPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RTIGRAML KNKHMTITEFVAQRMMDAQK GEISPDINTAMTSRLLDLTYGV LADIEAEDLARKRRLRITRDD WRYLNRILLSLFRAGDNCAR VSYQTPTREIKKLDGLWAFSLD RENCIDQRWWESALQESRAIA VPGSFNDQFADADIRNYAGNV WYQREVFIPKGWAGQRIVLRF DAVTHYGKVVWNNQEV
22510	52878	A	22638	1	2470	MNADTDYSIAEAAFNKGETAM TINGPWAWSNIDTSKVNYGVT VLPTFKGQPSKPFVGVLSAGIN AASPNKELAKEFLENYLLTDEG LEAVNKDKPLGAVALKSYYYE LAKDPRIAATMENAQKGEIMP NIPQMSAFWYAVRTAVINAAS GRQTVDEALKDAQTRITNCCRI RRESLIRPGMRKNPMDVIKKKH WWQSDALKWSVLGLLGLLVG YLVVLMYAQGEYLFIAITLILS SAGLYIFANRKAYAWRYVYPG MAGMGLFVLFPLVCTIAIGFNN YRRTKQVAGMPAKSSSLRSSQ DREMRPGAKAERTRYDSPGSY GVAGPGFLGSRGSPFSGPGKY NNTITKYALNIAPSAQNQSPHG PKLNRRQETQHALDWLDAGYT FTYSEDQALTPYFKLAYVYDDS NNDNDVNGDSIDNGTEGSAVR VGLGTQFSFTKNFSAYTDANYL GGGDVDQDWSANDLTGITAKD AQMLSVVKPLQEFGLDKCLS RYGTRFEFNNEKQVIFSSDVNN EDTFVILEGVISLRREENVLGIT QAPYIMGLADGLMKNDIPYKLI SEGNCTGYHLPKQITLIEQN QLWRDAFYWLAWHNRILELRD VQLIGHNSYEQFAHIIFMIAAM QMGSVWGDDFSSGQHSVARKS QLHKPILRVKCEGFTISANPNS SPRYPTIIEQAEQPRIVDFSIVRF
22511	52879	A	22639	1	852	

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22512	52880	A	22640	1	747	MIIDPRYTDGTGAGREDEWIPIR PGTDAALVNGLAYVMITENLV DQAFLDKYCVGYDEKTLPASA PKNGHYKAYILATD/GVVRTAK STAGHQRYLCSHCRKTWQLQF TYTASQPAGQ*RYTDGTGAGRE DEWIPIRPGTDAALVNGLAYV MITENLV DQAFLDKYCVGYDE KTLPASAPKNGHYKAYILATDG WCVPPKAPPDISAISALTAVKH GNCSSLTPLLNP GSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSL RKT VVAHVFGERTMATL GR LMSLLSPFDVVIWMTDGWP LYESRLKGKLVHISKRYTORIE RHNLNLRQH LARLGRKSLSFSK SVELHDKVIGHYLNKHYQ
22513	52881	A	22641	1722	2463	NPRLAGSEGSCPCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RKLTPGCL FVALKGERFDAHDFADQAKAG GAGALLVSRPLDIDLPLQIVKD TRLAFGELAAWVRQQV PARVV ALTGSSGKTSVKEMTAAILSQC GNTLYTAGNLNNDIGVPM TLL RLTPEYDYAVIELGANHQGEIA WTVTHPPRFVTKQWLCFLPDG LLLFAEARFVIWQM QPAVMAV DVAAFAHLFNQQYQRFTGRP PDSSKL PWKITCNGECVTFHW WLLGVA VRISRLLPVRVMTAL EGNYNGTEGISALPFNGIILAH NESEWVTFRNKNNEAFLDRV YIVKVPYCLRISEEIKIYEKLLN HIFECWQHFLNNPESLQCYIWA ANADFREARQVIFKTFFTVGVE EELGIRQTRTNDFLVTGDNLLRI FRFDVGNEDKVRQQFAVVRH REVFLVTFHGVNQRF SRHREEF LFEFCVSVTANLTRCFFGIGFNL RLTFFVIGDDFPTLTQNFRILIGV IDGEFRLAHKAVAANHAIGLNA QNGCRNDFVAHAAGSRALAAD GRSLEHAPT VETV VAGPLCESG DVFTQQEGGNVETRALPEVKA AVPPVQLLTGWCVTAKALPDIS AISALTAVKHGNCSSLTPLLNP GSDVIVCAEMDEQWGYVGAKS RQRWLFYAYDRLRKT VVAHRL

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22514	52882	A	22642	90	1254	KGLCSHSEMVVPSYSATDGVV RNGKSTAGHQRYLCSHCRKTW QLQFTYTASQPAGQ*RDIVLTK LMMVWHSQSGYEKAYAHQR WWYRAILLTGWCVTAKALPD ISASALTAVKHGNCSSLTPLL PPGSDVIVCAEMDEQWGYVGA KSRQRWLFYAYDRLRKTVAH VFGERTMATLGRMLSLSPFDV VIWMTDGWPLYESRLKGKLHV ISKRYTQRIERHNLNLSSTILVL LNGATQFQDLGDLNKELEETY TDSKNHISCVGNDGFGNDIFSR YVEAVGREGDVLLGISTSGNSA NVIKAIAAAREKGMKVITLTGK DGGKMAGTADIEIRVPHFGYA DRIQEIIHKVIHILIQIEKEMVN FTGLVQRGGGTGPHKDGWGIT FYEVAFEDVAVNFTQEEWALL DPWQKKLYRDVMLETYRNLAS VGDDDNIPSLREQVAHQRYFKT WHVEREYFSK
22515	52883	A	22643	690	1233	RLQSLHYQGRGKPVPMRSYLS FLFTISNSAGVFRCPSCSATDGV VRNGKSTAGHQRYLCSHCRKT WQLQFTYTASQPAGQ*RLLGP KNRPREQNWLLWCERGVM SRL QALYLREQGFNNVKVDNFQTK VDSCTRPLAGQQFYPCIPDDAL VQPLFGGNFVFQRREAGHITNR EDIVRHQHGGWRGANSRDDTP GTVELFNGFNQQAIAKTLRAF NATRQHDHVIFAISHFDQRRIR QQLHAARAGNRQVTIAGDAGS GDFDTAANQIDSGDGFSLFTT RGEANQCRCAGHIHSPFFLPQT VRVFSAVPPVQLLTGWCVTAK APPDISAISALTAVKHGNCSSLT PLLNPPGSDVIVCAEMDEQWG YVGAKSRQRWLFYAYDSL RKT VVAHVFAVKPYWDTGGGFHC RWIYMQQEKELLQLSLQQGKY NQKRAAELLGLTYHQFRALLK

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22516	52884	A	22644	1314	1483	RIQRYCGKTGCPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTVYTASQPAGQ*RMFNADG SEVAQCGNGARCFARFVRLKG LTNKRDIVSTANGRMVLTVT DDDLVRVNMGEPNFEPSAVPF RANKAEKTYIMRAAEQTILCGV VSMGNPHCVIQVDDVDTA AVE TLGPVLESHERFPERANIGFMQ VVKREHIRLRVYERGAGETQA CGSGACAAVAVGIQQGLLAE VRVELPGGRDLIAWKGEELQET LTELDRAVVDYLIKNEFFIRN ARAVEAIRVPHVPRGTVSLVE WHMARARNHIHVLEENMALL MEQAIA NEGLFYRLLYLQ RSLT AASSLDDMLMRFH RWARDLG LAVAMPVTINKGNQIIENQLDT ETITISYEFILCQH LIANTEFSYL ALPENYNRLCLPNSKNQTNNRF KTLNSKAIGRLLAAGGVYNGNI EGFRDTAEKLAVPPVQLLTGW CVTAKALPDISAISALTAVKHG NCSSLYTASQPAGQ

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22517	52885	A	22645	1479	1793	TRYRSCPSCSATDGVVRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAGQ*RRNACQYRTPAV VASRQKRWHGDLGMIGSRDV MLFISDSVGAKELDLIIPRLEDK SIALLAMTGKPTSPLGLAAKAV LDISVEREACPMHLAPTSSTVN TLMMGDALAMAVMQARGFNE EDFARSHPAGALGARLLNKVH HLMRRDDAIPQVALTASVMDA MLELSRTGLGLVAVCDAQQV QGVFTDGDRLRWLVGGGALT PVNEAMTVGGTTLQSQSRAIDA KEILMKRKITAAPVVDENGKLT GAIKLQDFYQGRGLFNPSIPRVS TADAGLANRARRNWVGSSWK QVGQIILQGGPQNAEKSGQRYT VSHDRHRDAERQRVKSGLPY AECSTYPSCPVALDLAFASHGI HMHAPGEALRMLVTAMDKAA DARTKLARLLATKGITHEIQIPD ISTKEKAQQPIGLNMEQIKPEKQ DFIKPVIPQAGKHNGVNMSVLR SLLTAGVLASGLLWSLNGITAT PAAQASDDRYEVTQQRNPDA CLDCHKPDTEAVPPVQLLTGW CVTAKAPPDISAISALTAVKHG NCSSLTPLLNPVSDVIVCAELD EQWGYVGAKSQRWLFYAYA QSPRTTRCCARIRLHALWRRW

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22518	52886	A	22646	807	1350	NRGCPSCSATDGVVRNGKSTA GHQRYLCSHCRKTWQLQFTYT ASQPAGQ*RLLNRLIEPTRGQV LIDGVDIAKISDAELREVRKKI AMVFQSFALMPHMTVLDNTAF GMELAGINAEERREKALDALR QVGLENYAHSYPDELSGGMRO RVGLARAINPDILLMDEAFSAL DPLIRTEMQDELVKLQAKHQR TIVFISHDLDEAMRIGDRIAMQ NGEVVQVGTPEILNNPANDY VRTFFRGVDSQVFSAKDIARRT PNGLIRKTPGFGPRSALKLLQD EDREYGYVIERGNKFVGAVSID SLKTAAPPPVQLLTGWCVTAK APPDISAISALTAVKHGNCSSLT PLLNPPGSDVIVCAEMDEQWG YVGAKSRQRWLFYAYDSLRT VVAHVFGERTMATLGRMSLL SPFDVVIWMTDGWPLYESRLK GKLHVISKRYTQRIERHNLNLR QHLARLGRKSLFSKSVELHDK VIGHYLNKHYQ
22519	52887	A	22647	1	1270	MTAATEQLNASRGLSTREMER QAEAKITTDYINSGGSEGDEK LQNMKAQNDYYAAEDAKRA DWLAGAESAFADYGDSAMDM YGNVNEIASSALNGMTDMMV QFLTGTKANFADFANKIISMIK MIAQMVIFNTSLRNDGRSVSSG GAAVSLAAAAGSVATSGFNAS NSAPKVVTIREVERSDVSGME ASSTSWITIRSFTAETSTFGPTM TASMTFLPTYCSIIASLLSSFKLA AATDGVVRNGKSTAGHQRYLC SHCRKTWQLQFTYTASQPALA RNPNRDITYWGGREEQHLIDL CELEALSLKHPLQVVPVVEQP EAGWRGRTGTVLTAVLQDHAT DGVVRNGKSTAGHQRYLCSHC RKTWQLQFTYTASQPGTHQKII DMAMNGVGCRATARIMGVGL NTIFRHLKNSGRSR

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22520	52888	A	22648	381	945	GAPVASVSISCPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RTENQTPH VLTHKWELNYENPWTQGGEHL TMGLVVGWRGLQEGDPARTN LSYYQANVGSGQHRENGKPIN LGNVGKSNGERGGKSLYRCKIF LESSVTMKDRELPPVYDGVFEV LQWLLFLSAVPPVQLLTGWCV TAKAPPDISAISALTAVKHGNC SSLTPLLNPBGSDVIVCAEMDE QWGYVGAKSRQRWLFYAYDS LRKTVVAHVFGERTMATLGRLL MSLLSPFDVVIWMTDGWPLYE SRLKGKLVHISKRYTQRIERHN LNLRQHLARLGRKSLSFSSKSV LHDKVIGHYLNKHYQ
22521	52889	A	22649	354	1119	RRWRRGAHEAATGGTGRGPAE EAAPGEPAAGRAAPKSGGKRL GGVLGRGGVGRSGSPDRSGA HSAAPRRRCRQLPGRCPCSATD GVVRNGKSTAGHQRYLCSHCR KTWQLQFTYTASQPAGQ*RSK GAIGEGPPDPRGIVEQNLGGDIS IPCYNPRPRRQAQKTTLGPLN QPRIPSAQCAGAFPRVAAAGAG GGGGGGSGSGFCLGWRLRRR RQRRRRWRRGEGEDGDAGH MRPRPAGRAEARRRRRLRGNP PPGARLPNREGNGSGVSWAAE VSGDGRGARTEAARTRRRPGG ADNYPGAVPPVQLLTGWCVTA KAPPDISAISALTAVKHGNCSSL TPLLNPBGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLRLK TVVAHVFGERTMATLGRLLMSL LSPFDVVIWMTDGWPLYESRL KGKLVHISKRYTQRIERHNLNL RQHLARLGRKSLSFSSKSVLHD KVIGHYLNKHYQ
22522	52890	A	22650	23	658	VISRPGSSIQVRGLLSRHGLAL GSAPDLWKLWVNLVQGMGQ QSQGSSCREGCSRPOCPAAPC GAAPAHFCSAATFWESEVQSIP R/CRATDGVVRNGKS/TAGHQ RYLCSHCRKTWQ/LQFTYTASQ EVIRSSPTSAPRSDGKTVPPLM GISP*SAHRLATSDPSLCLSES LCSREPAAVPRASNQQPQGVK DVHHQFTARTSRYPKSK
22523	52891	A	22651	926	1093	

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22524	52892	A	22652	343	817	GGARSRQNPRCGPCMVVVPQG SGRSVSADSSSTEFREQGGSVAI\N FPKSINRAGPELFRFMENPFNSV *YRKNVRELTPAIMAVLPVEFR TRLAPQNDTMSLIASAMKECSE AKQAVLLNAPEHQMKVEVSEG IASLFRMLPEQVGPLMTMVT MLGVI
22525	52893	A	22653	115	425	
22526	52894	A	22654	747	1173	
22527	52895	A	22655	1	2709	
22528	52896	A	22656	1	2583	
22529	52897	A	22657	636	1029	APSDQKRDFLVPHGADSAMAK SG*CESGNDLLSSSHMNQLR/A/ ESIPEDVIAGASALVLTFIKFI AENPQWWQQFLKDHVSILAMN EDEAEALTGESDPLLASDKALD WVDLVLCTAGPIGLYMAGGGD VN
22530	52898	A	22658	1611	3300	QSAWANRHRLVDCGRPGNGSD AGVAARSGRNDGTGRCGLCHS CSRYGDHHRQSDRIYRHYDAG RSPSGAVDYGTQRGNRFSRAV YPVGA/RRWR*GLPLV/QQFQPE NETSAAWVVGINQPLVDIEAK VDDEFIERYGLSAGHSLVIEDD VAEALYQDVQQKNLITHQSAG GTIGNTMHNYSVLADDRSVLL GVMCSNIEIGSYAYRYLCNTSS RTDLNYLQGVDPGPIGRCTLIG ESGERTFAISPGHMNQLRAESIP EDVIAGASALVLTSYLVRCCKPG EPMPEATMKAIEYAKKYNVPV VLTGTFKFIKPNPQWWQQFL KDHVSILAMNEDEAEALTGESD PLLASDKALDWVDLVLCTAGPI GLYMAGFTEDEAKRKTQHPLL PGAIAEFNQYEFSSRAMRHKDC QNPLRVYSHIAPYMGGPEKCN LGRSGWLLYGRGLDKQRLTQY QSKLGAAMVIVAAWCVEDYQ VIRLAGSLTARATRLAHEAQLD VAPLGKIPHLRTPGLLVMDMDS TAIQIECIDEIAKLGTGEMVAE VTRTGDAARRTRFYRQPAQPCG
22531	52899	A	22659	430	586	
22532	52900	A	22660	1	131	

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22533	52901	A	22661	1	1282	MLPAHLDACVTTLQKIRWTL VVDPTLALRVPLPALSIRDDPPL RAYLPGRGALKVIRFDDMDFA TIDGINRMLVDIDTNYLFLPRVT SSTIRCLSVPTRRTVPAVTASGR SVKYYPPDFDPSKIPKLKLPKD RQYVVRLMAPFNMRCCTCGEY IYKGGKF\NARKETVQNEVYLG \LP\FRFYIK\CTRCLGRDSPFKT DP\ENTDYTM/ESLGATRNFGQ* EASWEEEEKRV\QK\EREDE/ES LNNPMKVLENRTKDSKLEMEV LENLQELKDLNQRQAHVDFEG\ MLRQHRLSEEERRSQQEFEQ KTAALLEEARKRRLLEDSDSED EAAPSPLQPALRPNPTATLDEA PKPKRKVEVWEQSVGSLGSRPP LSRLVVVKAKADPDCSNGQP QAAPHPRSPAEQEGGQPYTPDA WRVLPEPTGCIPGQ
22534	52902	A	22662	1	412	
22535	52903	A	22663	298	532	MGSWSLPGRTLWKEKVRFLKS KERTNPGSNFFSFGSQHTREER SQECLSLPVLPSYLATRLSLPDS CPLKGRKAH*QRHSEI*LMGFE PGWPGKL*GWIELAFLGCLHL TLPLCPTPLPPKSTKSGCFSLSI ALCFNKQFAVTK
22536	52904	A	22664	1	193	
22537	52905	B	22665	55	281	
22538	52906	A	22666	86	159	
22539	52907	A	22667	63	1036	VRGGLAAGRGRGSAGAAPVVV AAMLGAWAVEGTAVALLRLL LLLLPPAIRGPGLGVAGVAGAA GAGLPESVIWAVNAGGEAHVD VHGIHFRKCIPL*GRVGRALYY GMKLPILRSNPEDQSCYQTE\RS N\EETFGYESPIQREGGLTCWSL KFAE\VYFAQSQQKVFDVRLNG HV\VKDLDFDRVGHSTAHEI IPMSIRKGLSVQGEV\ST\FTQG KLLPLSFSKGYL*PIPKVCAL\YI MAG\TVDDVPKASAFNPGLEK KEEEEEEEYDEGSNLKKQTNK NRVQS\GPRTPNPYALDNSSLM FPIL\A\FGVFIPTLFLCLRL
22540	52908	A	22668	1570	1773	

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22541	52909	A	22669	62	454	NKQLNKKRRRTMIALIQRVTRA S/VTVEGEVTGEIGAGLLV/LLG VEKDDDEQKAN/RDAEGQM/N LNVQQAGGSVLVVSQF/TLAAD TERGMRPSFSQGHHRIRAQAFY DYFVES/CRQQR*YAQGGLSAE FRLSNS
22542	52910	A	22670	1	1930	MAGKPEYDKTISTSIVLNALNA LGVSAAESGRNDLVVKTEGD RKVSGSAYRETKDRGFHHGTL LLNADLSRLANYLNPDKKKLA AKGITSVRSRVTNLTELPGITH EQVCEAITEAFFAHYGERVEAE IISPNKTPDLNFAETFAQSSW EWNFGQAPAFSHLLDERFTWG GVELHFDVEKGHITRAQVFTDS LNPAPLEALAGRLQGCLFSLYN SDLNTVIDNVLRJFPLLSWISF WLLYSIVPTIRVPNRDAIVGAFV AALLFEAGKKGFALYITMFPSY QLIYGVLAVIPILFVWVYWTCV TVEGEVTGEIGAGLLVLLGVEK DDDEQKANRLCERVLGYRIFSD AEG\KMNLNVQQAGGSVLVVS QFTLAADTERGMRPSFSKGVID DIGFNTEISQTRFHQASHLFKRR GIYRLHFARRRCQQIQRQRRR RFMQRTAVAITHQQRMKQGIL RLWRNWLLWLLILLRRNRLL RLLILLWRNLLRLLILWLRR NRLLWLLILRLRRNWLLRLLIL LLRCNRLLRLLYRFNNWRKQR FVWTIIQQRFWRKFKIIQRERI RPSRLFAGITLLSLRKLTSQFS LCRSICIFCVYGHIMLILFAIAL LCLGELTCQFILLHRIDFIIVVLI
22543	52911	A	22671	377	463	QTISQTTVQSN*NSGLRISPKTA QLHGD
22544	52912	A	22672	129	615	KARQKSCQPVTDTQCRHTSSS IGKRLAFCQNLTQIHTESTMKP WILLVMFISGVVMLLPVLGSF WNKDPFLDMIRETEQCWVQPP YKYCEKRCTKIMTCVRPNHTC CWTYCGNICLD/IRRAP*/HQC* TPRFYWPITTVG*RMTIWSKKS AAYFLLGTPTWL
22545	52913	A	22673	3	412	
22546	52914	A	22674	2	390	

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22547	52915	A	22675	180	507	CCGGRARSELCLLNLCKGAD*I QAW*KFCQWPCERADGRGCRK AER\CPCPKGAYSL/YCRESVCC LPSFVNKNSSSLCVAHNWGRH CYLWTAADV KQFISSHMFPVE HL
22548	52916	A	22676	3	227	GGGRARSELCLLNLCKGAD*I QAW*KFCQWPCERADGRGS*F DRGAEVCNQTDWQSIRSSQGG RDQRFSTERA
22549	52917	A	22677	567	842	
22550	52918	A	22678	1	1400	MGWGQGPDPVQLMNGHERSPS HSPREAKKSGSPLPTDIHCFSQ SQPAMVITGVPTAPAGASAKM GLCATPITGACPLWLRGFRGWR CEDRCEQGTYGNDCHQRCQCQ NGATCDHVTGECRCPPGYTGA FCEDLCPPGKHGPQCEQRCPCQ NGGVCHHVTGECSCPSGWMLS FPGWRPI*FSKSL*MQGTVCQ PCPEGRFGKNCSQECQCHNGGT CDAATGQCHCSPGYTGERAAV PDVRK\CQDECPVGTYGVLCAE TCQCVNGGKCYHVSGACLCEA GFAGERCEARLCPEGLYGIKCD KRCPCHELENTHRGDDREKAEF GHLLIALEVQYTEISNCIEKSQE ASCYDIRMLKQPYGETNTEEL AVNYVYSIYASKEQIRYKHGRS FANGHVKELMEGPSRRIAGSGG EKYKRDEEKNTLLRGQNRGGR GKNPKKTKAWVKIQGQNKIEIS GVGADRKRFFREK

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22551	52919	A	22679	1	2210	MEQKGFEKNDTLIYEFFHIVAK PHPLPIKSSTYTTFQSARVTRFF LDAEKECRCQEGQVEAALIAM GGTCQGTQRLSTAGESESATH MREPAVQCRRDSQCVSVLAGR RRFFQGAASPLHPASVALTQLH VRWASTATIGQVSGFPGKIRVS PTTNLGSDSYIFTASHWGLGHY GPAVHVHSQGGIDERGSNDG RLYVTNPCGNVPSWTPNIDRLA EDGVKLTQHISAASLCTPSRAA FLTGRYPVRSGMVSSIGYRVLQ WTGASGGLPTNETTFKILKEK GYATGLIGKWHLGLNCESASD HCHHPLHHGFDHFGMPFSLM GDCARWELSEKRVNLEQKLN LFQVLALVALTLVAGKLT VSWMPVIWSALSALLASSYF VGALIVHADCFMRNHTITEQP MCFQRTTPLILQEVASFLKRNK HGPFLFVSFLHVHIPLITMENF LGKSLHGLYGDNVEEMDWMV GRILDTLDVEGLSNSTLIYFTSD HGGLENQLGNTQYGGWNGIY KGGKGMGGWEGGIRVPGIFRW PGVLPAGRVIGEPTSLMDVFPT VVRLAGGEVPQDRVIDGQDLL PLLGTAGHSDHEFLMHYCER VLHAARWHQRDRGTMWKVHF VTPVFQPEGAGACYGRKVCPCF GEKVVHHDPELLFDLSRDPSET HILTPASEPVFYQVMERVQQAV

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22552	52920	A	22680	185	2091	GSTERDNMLHLHHSCVCFRSW LPAMLA VLLSLAPSASSDISASR PNILLMA\DDHGVGDIGCYGN NTMRTPNIDRLAEDGVKLTQHI SAASLCTPSRAAFLTGRYPVRS GMVSSIGYRVLQWTGASAGFT TN\ETTFAKILKEKGYATGLIGK WHLGLNCESASDHCHHPLHHG FEHFGMPFSLMGDCARWELS EKRVNLEQKLNFLFQVLALVA LTLVAGKLTHLIPVSWMPVIWS ALSAVLLLASSYFVGALIVHAD CFLMRNHTITEQPMCFQRTTPLI LQEVASFLKRKNHGPFLLFVSF LHVHIPLITMENFLGKSLHGLY GDNVEEMDWMVGRILDTLDV EGLSNSTLIYFTSDHGGSLNQL GNTQYGGWNGIYKGGKGMGG WEGGIRVPGIFRWPGVLPAGRV IGEPTSLMDVFPTVVRLAGGEV PQDRVIDGQDLLPLLLGTAQHS DHEFLMHYCERFLHAARWHQ RDRGTMWESPTL*PPCVSSQEG AGAC\YGRK\VCPCFGEK\VVHH DP\PLLA\FDLSDPSETHILTPASE PVFY\QVMER\VQQAVWEHQR TLSPVPMQLDRLGNIWRPWMQ PCCGPFPLCWCLREDDPQINVC SEKLEPRFLNFVTQIETNQLAM
22553	52921	A	22681	209	392	
22554	52922	A	22682	1	513	
22555	52923	A	22683	3	613	
22556	52924	A	22684	1	2115	

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22557	52925	A	22685	53	1966	VGQPRGLRTLLEKLTASVAGGA ANFFGDIERDLGPRDTSRGIRG GNLGDRGCSSAEMAYASWQR WSPVEWARWMWTAVTSSGDS SLLVLQGDGSKRSSDSEAFET PESTTPVKAPPAPPPPEVIPEP EVSTQPPPEPGWGSETVPVPD GPRSDSVEGSPFRITQAHSFSGVF DEDQPIASTGTDILDFDNIELVD TFQTLPRASDAKNQEGKVNT RRKSTDSVPISKSTLSRSLSLQA SDFDGAASSGNPEAVALAPDAY STESAKRVVPPASGGGRVQNSP PVGRKTLPLTTAPEAGEVTPSD SGGQEDSPAKGLSVRLFYSE DKSSWDNQENPPPTKKIGKKP VAKMPLRRPKMKKTPEKLDNT PASPPRSPAEPNDIPIAKGTYTF DIDKWDDPNFNPFSSTSKMQES PKLPQQSYNFDPTCDESVDPF KTSSKTPSSPSKSPASFEIPASA MEANAVDGDGLNKPAAKKKT PLKTMVEDVMSVCSLFDTRV KKSPKRSPLSDPPSQDPTPAATP ETPPVISA VVHATDEEKLAVTN QKWTCMTVDLEADKQDYPQPS DLSTFVNETKFSSPTEELDYRNF YEIEYMEKIGSSLPQDDDAPKK QALYLMFDTSQESPVKSSTVR

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22558	52926	A	22686	662	2927	HLRRKRNLPRREGLSPALLEET PLEPAVGPKAACPLDSESAEGV VPPASGGKRCLFTTAPEAGEVT PSDSGGQEDSPAKGLSVRLEFD YSEDKSSWDNQENPPPTKKIG KKPVAKMPLRRPKMKKTPEKL DNTPASPPRSPAEPNDIPIAKGT YTFDIDKWDDPNFNPFSSTSKM QESPKLPQQSYNFDPDTCDESV DPFKTSSKTPSSPSKSPASFEIPA SAMEANGVDGDGLNKPACKKK KTPLKTDTRVKKSPKRSPLSD PPSQDPTPAATPETPPVISAVVH ATDEEKLAVTNQKWTCMTVD LEADKQDYPQPSDLSTFVNETK FSSPTEELDYRNSYEIEMEIG SSLPQDDDAPKKQALYLMFDT SQESPVKSSPVRMSSEPTPCSGS SFEETGSPLRNTAA\KNQ\HPVP TRDWAP*PRSSHLAGCQRKSSQ E/VELGGPWGLGHPFQEGDLKF TASPRGSFASADALLSRLAHPV FSL/CGALDYL\EPNFRQKRNP LFAQKLQREA\HPTDVS\SKT ALYSRIRTTEVEKPAGLLFQQP DL\DSALQIARAEI\TKEREVSE WKDKYEESS\REVMEMRK\LA EYEKTIAQMIEDEQREKSVS\HQ TVQQLVLEKEQA\LADLNSVEK \SLADLFRRYEKMKEVLESFRK NEEVLKRCQAQEYLSRVKKEEQ RYQA\LKVHA\EEKLDRANA\I
22559	52927	A	22687	374	1268	AETNMVWYDWMRPSHAQLHS DYMQLPTEAKAKSKNKVRGV QQLIQRLRLIKSPAERIEMQIAG KLTSQAFIETMFTSKAPVEEAF YAKFEFECRARGADILAYPPVV AGGNRSNTLHYVKNNQLIKDG EMVLLDGGCESSCYVSDITRTW PVNGRFTAQAELYEAVLEIQR DCLALCFPGTSLENIYSMMLTLI GQKLKDLGIMKNTQGK*CL/RR LLE/QYCPHHVGHYLGMDVHD TPDMPRSLPLQPGMVITIEPGIYI PEDDKDAPEKFRGLGVRIEDDV VVTQDSPLILSADCP

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22560	52928	A	22688	329	1389	RIWKTQMMRMKKMMMMMM MMMRITLFFQQESQEAIFFPD LFPMCPFGCQCYSRVVHCSDLG LTSVPTNIPFDTRMLDLQNNKI KEIKENDFKGLTSLYGLILNNN KLTKIHPKAFLTTKKLRLLYLS HNQLSEIPLNLPKSLAELRIHEN KVKKIQKDTFKGMNALHVLEM SANPL**/SMGIEPGAF*RG*RCS /YIRIAEAKLTSVPKGLAPPTLLE LHLDYNKISTVELEDFKRYKEL QRLGLGNNKITDIENGLANIPR VR\EIHLGNIKKKKIPSGLPELKY LQIIFLHSNSIARVGVNDFCPTV PKMKKSLYSAISLFNNPVKYWE MQPATFRCVLSRMSVQLGNFG
22561	52929	A	22689	1	4608	
22562	52930	A	22690	1	465	
22563	52931	A	22691	1	1542	
22564	52932	A	22692	1	4226	EAVLCSSRGRPDSSMPDCCRNA ALEARSCQSMSTLFSNTVSPTQ DGTSSLPRRQSSFAKPLRALY DLIAPMEGGVVESTEPLGTSR SGFASGTALFWLGDNGKAASP PGVSVSLENEDDNTQCNRLEQ GYREAAVPDWTQDLALCLLPT LQSLKARTAPHLCPSSCYKA WYTLAVSKVSGMVEGKAWIIL LLLAATHALLQRPQEGDITPL AGSRAAAVSCQARPFSTFSGLM HSSGPVGRHRQLILVLE
22565	52933	A	22693	2	4197	ALDFPGRFRPTASFIWASVLFE TIRHEAEVSTDYKLSLFDLQTSS YQALQRVLVSLGHHDEALAVA ERGRTRAFADLLVERQTGQQD SDPYSPVTIDQILEMVNGQRGL VLYYSLAAGYLYSWLLAPGAG IVKFHEHYLGENTVENSDFQA SSSVTLPTATGSALEQHIAVRE ALGVESHYSRACASSETESEAG DIMDQQFEEMNNKLNSTVDPT GFLRMVRRNNLFNRSCQSMST LFSNTVSPTQDGTSS
22566	52934	A	22694	1	618	
22567	52935	A	22695	1	3528	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22568	52936	A	22696	85	1193	RPIEGQLGTCHPGSEPRTIRWRA PGKGLRLYTHPPTSDIAGRTGA AASFPAPLHLPREPRAGVDGTD AERILYPRRAAPAASGVGSRPA GEAVRADEAGAAGLGGFQSER NRSWGGESLGSRQPQKMPAFN RLFPLASLVLIY*VSVCFPVWGE VPLENGGRARANPMKLRISC MKREEVEATTVVEWFYRPEGG KDFLIYEYRNGHQEVESPFQGR LQWNGSKDLQDVSITVLNVTL NDSGLYTCNVSREFEFAHRPF VKTTRLIPLRVTEEAGEDFTSV VSEIMMYILLVFLTLWLLIEMIY CYRQVSKAEAAQENAPGNSL EGGSQGLQINSTQDGLVTGQQ DVGSHRAREHMPDFEPPSAK
22569	52937	A	22697	277	527	VRVSWEYFCAPGPAGSPAGPG RGEEKQRLGLLIRDARSPAPPG PPVGSVRG/PKPAPAGRVRAGK RRA*GAACSLAAGAWVEPGI

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22570	52938	A	22698	226	2268	SVKNTYTKCHVRNEQICNKLTSCKSCSLNLCQWDQRQQECQALPAHLCGEGWSHIGDACLRNVSSRENYDNAKLYCYNLSGNLASLTTSKEVEFVLDEIQKYTQQKVS PWVGLRKINISYWGWE DMSPF TNTTLQWLPGE PNDSGFCAYLE RAAVAGLKANPCTSMANGLVC EKPVVSPNQNARPKKPCSLRT SCSNCTSNMGECMWCSSTKRC VDSNAYIISFPYGGCLEWQTAT CSPQNCSGLRTCGQCLEQPGCG WCNDPSNTGRGHCIEGSSRGPM KLIGMHHNEMVLDTNLCPKEK NYEWSFIQCPACQCNHSTCIN NNVCEQCKNLTTGKQCQDCMP GYYGDPTNGGQCTACTCSGHA NICHLHTGKCFCTTKGIKGDQC QLCDSENRYVGNPLRGTCYYK TLIDYQFTFSLQEDDRHHTAI YFIVNPKQSNKNLHISINASNNF NLNITWPC*STAGTISGEETYIV SKNNILEYRDSFSYEKFNFRSNP NITFYVYVSNFSWPIKIQIAFSQ HNTIMDLVQFFVTFSCFLSLL EAAVVKIKQTCWASRRREQ LRERQQMASRPFASVDVALEV GAEQTEFLRGPLEGAPKPIAIEP CAGNRAAVLTVFLCLPRGSSGA PPPGQSGLAIASALIDISQKAS DSKDKTSGVRNRKHLSTRQGT
22571	52939	B	22699	252	360	
22572	52940	A	22700	1	84	
22573	52941	A	22701	1	404	
22574	52942	A	22702	86	292	NPEMRCREFCLPSRPELALE* G*SVRDVA*AQMCSVWAGRP LGFAA*S*GSGHSCGRCSIWGE CWG
22575	52943	A	22703	82	379	HTLQPFISMGSLTKMFKVISEGP MD*RPHPKVRPMT*HSTPAPAN FMGHFFWKIMICTDRTEVATLV AGVVSGASVGGKSPYRKWNS PEPDVKGPRVL
22576	52944	A	22704	2	382	

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22577	52945	A	22705	1	479	HMPSGETAPLRIVDTGTGTGTV VAYAPTELGLHEMHIKYMASHI LESPLRFYVTTPTVPSVSAYGPG LVYGVAN/NTATFTIVTEDAGE GGDLAIEGPSKAEPRPRLSRA PGVDGAGASPLGEDTGPQAP GLQVLTERIPGPSAPTPEFLSVG VSAVC
22578	52946	A	22706	1	590	
22579	52947	A	22707	171	406	
22580	52948	A	22708	269	2477	
22581	52949	B	22709	167	7472	
22582	52950	A	22710	1	520	
22583	52951	A	22711	2218	2472	
22584	52952	A	22712	722	1555	SRNWYEALNNTWGREICVVD GWQSFRRQDYAFLQERGSGGD LWSSTLAQAMTLVESRHRHQ ALSTQLLDAIMPYCGNTLRLGV TGTPGAGKSTFLEAFGMLLIRE GLKVAVIAVDPSSPVTTGGSILG DKTRMNDLARAEEAFIRVPSS GHLGGASQRARELMLLCEAAG YDVVIVETVGVGQSETEVARM VDCFISLQIAGGADDLQGIKKG LMEVADLIVINKDDGDNHTNV AIARHM/YESALHILRRPPMHR VPRNPKVNLLPGTAMANLLS
22585	52953	B	22713	381	425	
22586	52954	A	22714	1	1185	
22587	52955	A	22715	1	3009	
22588	52956	A	22716	22	527	YEGIVMKPLIIVNPADCIGCART CEVACVVAHPSEQELNADVFL PRLKVQRLDSISAPVMCHQCEN APCVGACPVGALTMGEQVVQT NSARCIGCQSCVSACPFGMITIQ SLPGDTRQQIVKCDLCEQR*EG PACVESCPTQALQLLIERELRRV RQQRIVVTGENPL
22589	52957	A	22717	187	325	

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22590	52958	A	22718	1	2240	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRV TLEMKYGRIMLD TAKIIDEQDV PTHILSKLTFTLRNHPEGVVMK NFEVLQPLQNSLSGLPLWVSR ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPLRFRLQIGEHFMTIVDLP GVGESGVRDTEYAALYREQLP RLDLILWLIKADDRALATDEHF YRQVIGEAYRHKMLFVISQSDK AEPTSGGNILSTEQKQNISRKIC LLHELFPVHPVCAVSVRLHPV VALLQQFRDDETRHYHYDS QHRLVDYTRTQYEEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPQVTWYGWDGDR TTIQNDRSRIQTIYQPGSFTPLIR VETATGELAKTQRRSLADALQ QSGGEDGGSVFPVLVQMLD RLESEILADRVSEESRRWLASC GLTVEQM QNQMDPTEGTTAW Y/AEYDEWGNLLNEENPHQLQ QLIRLPQQYDEESGLYYNRHR YYDPLQGRYITQDPIGLKGGW NFYQYPLNPISDIDPLGLSMWE VARQMNAIASKLPEGFHIGINFS ASHIISPTFVDECLNFRDSFTRR DLNLVLEVTERDLLNVDESLVQ RLNILHENG FVIALDDFGTGYS GLSYLHDLHIDYIKIDHSFVGRV NADPESTRILDCVLDLARKLSIS

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22591	52959	A	22719	1	2301	MALTSGVHTGEKPYKCAQCEE AFSRKSELIIHQIHTGEKPYECT ECGKTFSRKSQIIHQRTHTGEK PYKCTKCGKSFCQQSHLIGHQR IHTGEQPYLGLSVAERPKEYED DRALKMAAPCGNSSREQPCCFL NKASEDAERAKPPS*EPGRLRT P*VAQPH*VPHFMATWVRKHP VHDRQFRLHGQIRELNWDVVR PEQFTGVATNCSGITYPQGGWL CPAELTRNVLELAQQQGLQIYY QYQLQNLSRKDDCWLLNFAGD QQATHSVVVLANGHQISRFSQT STLPVYSVAGQVSHIPTPELAE LKQVLCYDGYLTPQNPNQHH CIGASYHRGSEDТАYSEDDQQQ NRQRLIDCFPQAQWAKEVDVS DKEARCGVRCATRDHLPVGN VPDYEATLVEYASLAEQKDEA VSAPVFDDLFMFAALGSRGLCS APLCAEILAAQMSDEPIPMAS TLAALNPRLWVRKLLKGKAV KAG
22592	52960	A	22720	1021	1734	
22593	52961	A	22721	1247	2412	RRSHHAANLDIRIMPQTRQVT LPDPHELHPDSTLSMWPДNRIAR DAHLYRYDRHGRLTEKTDLIP EGVIRTDDERTHRYHYDSQHRL VHYTRTQYEEPLVESRYLYDPL GRRVAKRVWRRERDLTGWMS LSRKPQVTWYGWDGDRLLTIQ NDRTRIQTIIYQPGSFTPLIRVET ATGELAKTQRRSLADALQQSG GEDGGSVVFPVLVQMLDRLE SEILADRVSEESRRWLASCGLT VEQMQRNQMDPVYTPARKIHL HCDHRGLPLALISKEGTTEWCA EYDEWGNLLNEENPHQLQQLI RLPGQQYDEESGLYYNRHRY DPLQGRYITQDPIGLKGGWNFY QYPLNPVTNTDPLGLEVFPRPFP LPIPWKSPAQQQQWYPTFC
22594	52962	A	22722	1	4767	

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22595	52963	A	22723	668	1922	YPHADSPECWLSSSSER GKSSV TADLSRPRRLRPIPTCHGKPIAC TTTKAKNAFRPIAGASATGRLA NSPIILPNAAIRQEFGITLDPEEV FTFQGVKLYEYRYFPDCVRSRN EAGILVEQILSTLFSVGEHFSLK RAPFFKVPSLRSFYAFGGLTTG VVRNGNHGVNTPARKIHLYH CDHRGLPLALISKEGTTEWCAE YDEWGNLLNEENPHQLQQLIR LPGQQYDEESGLYYNRHRYD PLQGRYITQDPIGLK\GGWNFY QYPLNPVQYIDSMGLASKYGH LNNGGYGARNKPPTPDPSKLP DIAKQLRLPYPIDQASSAHNVF KTFFRALSPYDYTLYCRKWVK PNLTCTPQDDSQYPGMDTKTA SDYLPQTN/WPVPSSIVSCTTGV VP*VVCQWVFAWPPDISHRRTG
22596	52964	A	22724	25	510	RITDFGVKKIIRVGSCGAVLPHV KL RDV/VI/GMGAC/TDSKVNRI RFKGQAFGGIADFAMGR TAVD PGKALGINARVGNLVSADLFYS PDGEMFDVMEKYGILGVEMEA AGIYGVA AEFGAKALTICTVSD HIRT HEQT TAAERQTTFNDMIKI ALESVLLGDKE
22597	52965	A	22725	415	759	HRRRIVIDDTGIFRPRNTAQQLR QRPIAMSASGVVQIILEGHWRT HSLRNGFHRGFRL*SSPKVGMQ HGS RQVDHRTQRALRFFRQPGI DFLRPVFTPRRQRLAATNHFSR FVEH

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22598	52966	A	22726	2	2329	GTLPGCGAMHTCPSGPATHLV RRRIVRLPACVVTRANVPTPSR PVNATIGAFHSG*MASQGRRLS AQYPWSPFQYAARPVPTVPGR LVFTGTSKAPKISVMGPGMGIP SCSISAKELITDFGVKKIIRVGSC GAVLPHVKLRDVVIGMGACTD SKVTRIRFKDHAFAAIADFDMV RNAVDAAKALGIDARVGNLFS ADLFYSPDGEMFDVMEKYGIL GVEMEAAGIYGVAAEFGAKAL TICTVSDHIRTHEQTAAESQTT FNDMIKIALESVLLGDKEEDRVI RFGKARATRYALLRPYRGIERIP VWRVDDTGKAHKFADIRLCWP QGSCLDVAKAREVIRGSQPLPA WCENWAQEV DARLTKEAQSA LRPVINLTGTVLHTNLGRALQA EAAVEAVAQAMRSPVTLEYDL DDAGRGRDRALAQLLCRITG AEDACIVNNNAAVLLMLAAT ASGKEVVVSRGELVEIGGAFRI PDVMRQAGCTLHEVGTTNRTH ANDYRQADFQDDFVMAFTQN INGPTQNTALHGGHKRPDFLP LLGAFHGAIDILAPGGLHGYSL PSSFFHALALSAAFPGRCKLS VHLPFWGLKDGGPLLTAPLGG ALVGIVGGVGGSNLTFPFHTNF LNVRFVIRRISHRHHHFYRIAKL LMNGAQGSNMLIAAVAGVPHQ NGHFPFTVADRFAIVLSEGSIRV
22599	52967	A	22727	1	702	
22600	52968	A	22728	876	1318	RCHLANASPAAGSHAPSPDSLS/ KIR/QEVG/PLPL/PLLAPLIATPP RTSQPLSPLISSSPSPSPVGGQ VSPFRETPVPPAMSPWPEDPRR ASPPDPSPSPAASASERVVPSP LQFCAATPKHALPVPGRLPPCA SGHAMPCWRKIK

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22601	52969	A	22729	485	1455	PVVQRARNASSCQPFSTSVWAI PSISATSVPMCGATHSILSPKKS TVSDRIGSMQISFFPLSRSAEK* ESPCSSDAFHAIFSVLSGLALHS TTTSLCSSTSGQLVCC**TSLPPT TYGMIACAAPVE*SPRCPV*PPA SAI*RCNNVEALCSTPFERQP*E PAK\SMPDHPHECVYVVG*E PAPHNSREQIHPAHECLAGFP VTQESLFAPLEIVPAYCCEPGRE PRSARSFPFAPRELT*VQLELGT GL*RETLDLVVSAGWA*ARRIS GAVTATPETGTLCQLDSGAECH YRETGVELP*RSRPVGHGSSR HSRRWRT
22602	52970	A	22730	814	5001	PENSSHRPKPIIPMIASITLINANQ NSVSPYKRTFTRLTALMIKKKA AAQIHVGTSNGQYWRKLDNFNS PGGSSPVENSDCSTNSRLSFSPE NIIQNQDIVREAAVQGDGQKQ RQPQATDLDSGTHGSEMLPAT EVTVSGGFSVEETSCGDTGRSG GEALAVANDSTSTPQNANGLW KLKSTTPGGALPECFGTTDTTFS SAFCRKHGETQDTSQSSLPRTL HCYTGIREGGDDTEVESEAFSC SEGSEQQDAPD
22603	52971	A	22731	34	102	
22604	52972	A	22732	584	893	QKLLPNRMGHPVFKSSQDPV LLSRIAWKDASTVTWVIEQDPV LRRRRRTRRRRTRMRRRRGR* */SKRRRMR/GRRGRR*CRRRRR RSSRSRPTRRQRNRNQV
22605	52973	A	22733	2	269	IGKLYWFMPPSANLALRELIV LFLSVVGLKSGLSWIGYGALIT AVPLITVGILARMLAKMNYLT MCGMLAGSMTDPPA*PRFQTN DREEQHDPQLPQREVGAWRHK PVQLAD

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22606	52974	A	22734	3	958	RCYSLLSRAPHPGIYISIAERV/*I RLNSANFTLNSLLPAEKKLAEE FAVSRMTIRKAIDLLVAWGLV VRRHSGTYLVRKDV LHQTAS LTGLGEVLKRQGKT VTSQVLIF EIMPAPPAIASQLRIQINEQIYFS RRVRFV\EGIPLMLED SYMPVK LFRNLSLQHLEGSKFEYIEQECG ILIGGNYESLTPVLADRLARQ MKVAEHTPLLRLTSLSYSEGEF LNYSVMFRNATQIQGWRSHFR RLHPKKS LTVPPERAPPVFGGL IMRKNHSQRIDSGVRERRRTAG WMKIISKRQRRRIGHGTCQHPA HGQVIHFG
22607	52975	A	22735	2	285	GDEMTTSTLQKAIDLVT KATEE DKAKNYEEALRLYQHPVEYFL HA\KYEAHSDKAKESIRAKCV QYLDRAEKLKDYLR SKEKHGK LCLKDRV T
22608	52976	A	22736	545	791	
22609	52977	A	22737	249	1574	NHKAIDLVT KATEEDKAKNYE EALRLYQH AVEYFLHAIKYE A HSDKAKESIRAKCVQYLYRAE KLKDYLR SKEKHGKKPVKENQ SEGKGS DSDSEGDNPEKKKLQE QLMGAVVMEKP\NIRWNDVAG LEGAKEALKEAVILPIKFPHLFT GKRTPWRG\LLFRPPGT\GNSN RPKAGAPKATNSTFFSVSS\SDV KSKRLGETEKL V*NL F\ELARQ HK\PSIIFIDEVDSL CGSRNENES\ QAARRIQNGSSLVQIAGGLGIN NDGDSGFFGATNIP\WVLD\SAI R\RKV*KTKFYIPLPEKACPRPD VSRLHLGSTPHN\LRVATFHKL ARKTEGYSGADISIIVRDSL MQP VRKVQSATHFKKVCGPSRTNPS MMIDDL LTPCSPGDPRAMEMT WMDVPGDKLLEPVVCM SMDML RSLATTRPTVNADDLL\KVKKF SEDFGQES
22610	52978	A	22738	52	567	
22611	52979	B	22739	1	1293	
22612	52980	A	22740	443	1027	
22613	52981	A	22741	2077	2430	
22614	52982	A	22742	1	504	

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22615	52983	A	22743	3244	3947	RNEITPFRAMMIIRMAHRFQT EEIKRISFIKRRVGNKDEINPGA RWRRFHDDGITFLRLLDAGLTI PSGKTIVHPLARQRRGLVKIQFL R*LLAKLTRQPLLPLQPV TARL CLNPRLRRQRKIRMPAGTKWQ RLCPLIGDR*RHRQRSVYALS VRHNPVHHILRKNGDMYSFPIT IGNNVWIESHVVINPGVTIGDNS VIGAGSIVTKDIPPNVVAAGVP CRVILEINDRDK
22616	52984	A	22744	742	1158	
22617	52985	A	22745	439	2882	PDWQAFQSPFPASLIHPKPAK LPGWLCIVQWSLLAITRTPV RWAQQTETVGLVVGDVSDPF FGAMVKA VEQVAYHTGNFLLI GNGYHNEQKERQAIEQLIRHRC AALVVHAKMIPDADLASLMKQ MPADKQCESIPDQNNQTGTQY PRGKEPKLLRRLMHMNRKVGP RGPRRMLLRYL DVEFLSVALA VVHLGPQGTCSRLFLVARALV VAVSEMDKSLSAQAIYFASSN GPVPDLAYQVDFPRLEIGL*FÆ YVDTGAETTLVPGDVLYVPAG GWNFPQWQAPATTF SVLFGKQ QLGF/SAVVQWDGKQYQNLAK QHVARRGPRIGSFLQTLNEMQ MQPQEQQTARLIVASLLNHCR DLLGSQIQ TASRSQALFEIRDY IDERYASALTRESVAQAFYISPN YLSHLFQKTGAIGFNENLSHTR LGHA*TLLKGYDLKVKEVAHA CGFVDSNYFCRLFRKNTSPS EYRRHRLHDNRICQFKTPTDN PENPDRLTFRRIDKETSSLPKK VAPCKRLSVSRSSPKPSISIRRC MRMLIEGRSSFIHPDKDVDG FHPYNVGRLCQRAPRLRPCTPR GIVTLLEYNIDTFGLNAV VIGA SNIVGRPMSMELLLAGCTTTVT HRFTKNLRHHVENADLLIVAV GKPGFIPGDWKEGAIVMMSGI NRGVATDASCFLVPFANRVSG
22618	52986	A	22746	2	126	
22619	52987	A	22747	1	465	
22620	52988	C	22748	78	308	

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22621	52989	A	22749	1	2797	MEHPPVLAVQRVALPSRSSEPE LFLNPPTDEETEAHRGMYLDQ GPRTKDWIPVAPGVREPSPLGP GPSSLWLLVVG GTVEEGSRKH RPTCKKDFTKSKTV DQAPTLCA RHQMLNIQFLISDRDPQCNLHC SRTQPKPICASDGRSYESMCEY QRAKCRDPTLGVVHRGRCKDA GQSKCRLEAQA LEQAKKPQE AVFVPECGEDGSFTQNTSCIHSS VYQIGENSSLTFLEKREESGHL QRDWFPLWFPRKARVI
22622	52990	A	22750	1	5295	MNLNQEEIPDLPEKEFRRLVIKL IREGLEKGKAQCKEIQKMIQEV KREIFQEIESLKKKPPKIQKTLDI LLKMQNALESLSDRTEQAEIN SELEDKVFKLTQSNKDKEKITR KYEQSLQEVWSYVKRPNLRIIG VPEEEENTKSLENILGGIIEENFP SFARDLDIQIPEAQRTTGKLIK RSLLRHIVFRLSKVKMKERILR AVRQKHQATVSQKNKAGGITL PDFKLYYKATVSQKNKAGGITL PDFKLYYK
22623	52991	A	22751	1	891	GSPFEVMPRDDVFFIVDKI*DI GVYSCTAQNSAGSISANATLTV LETSPFLRPLLDRTVTKGETAV LQCIAGGSPPKLNWTKDDSP VVTERRHFFAAGNQLLIIGSDSV SDAGKYTCEMSNTLGTERGNV RLSVIPTPTCDSPQMTVL/HLLD DDGWGHCGLYVIIAVVCCVVG TSLVWVVIIYHTRRRNEDCSITN TDETNL PADIPSYLSSQGTADR QDGYVSSESGSHHQFVTSSGAG FFLPQHDSSTCHIDNSSEADVE AATDLFLCPFLGSTGPYVFEGK CVWAQNPF
22624	52992	A	22752	1	2947	MSAPSLRARAAGLGLLLCAVL GRAGRSDSGRGELGQPSGVA AERPCPTTCRCLGDLDCSRKR LARLPEPLPSWVARLDLSHNRL SFIKASSMSHLQSLREVAGNRIV EILPEHLKEFQSLETLDLSSNNIS ELQTAFFALQLKYLELNRNKIK NVDGLTFQGLGALKSLKMQRN GVTKLMDGAFWGLSNMEILQL DHNNLTEITKGWLYGLMLQE LHLSQNAINRISPD AWEFCQKL SELDLTFNHLSRLDD
22625	52993	A	22753	2	417	

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22626	52994	A	22754	1	262	VLDIGS/SLTVPDEFKQE/RAD GMWWKQLVAGAVAGAVS/RT GTAPLDRLKVFMQIKRAILGQQ ETLMCRSASWLAPWLVPQPNH HLPYG
22627	52995	A	22755	1	762	
22628	52996	A	22756	1	1527	RLAAAGADPAGSRGGRGSREA PTEAARCRASPPPAGAMRGSP GDAERRQRWGRLFEELDSNKD GRVDVHELRLQGLARLGGGNPD PGAQQGISSEGDADPNGGLDLE EFSRYLQEREQRLLLMFHS�DR NQDGHIDVSEIQSFRALGISIL LEQAEKNFAQA/VDRDGTMTID WQEWDRDHLLHSLNVEDVLY FWKHSTVLDIGECLTVPDEFK QEKLTGMWWKQLAAGAVAG AVSRTGTVPLDRLKVFMQVHA SKTNRLNILGGL*SMVLEGGIRS LWRGNGINVLKIAPESAIFMA YEQIKRAIPGE*ETLPVLERFVA GSLAGATAQTIIYPMEVLKTRL TLRRTGQYKGLAGLRRGGILER EGPRAFYRGYLPNVLGIIPIYAGI DLAVYETLKNWWLQQYSHDS ADPGILVLLACGTISSTCGQIAS YPLALVRTRMQAQASIEGGPKL SMLGLLRHILSQEGMRGLYRGI APNFMKVIPAVSISYVVYENMK

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22629	52997	A	22757	1	2127	MDQSGLLALRAAVGAVVGSTL AVDIGILVKDWHPRPLGGKHC QLLGAFRCRQHRRGKEERRGE TKEKKGERENERGKRRRIEGER DKYVKENЕКQTCVQKERHSCT GNSPNHMATVQAERGALDSHG GWHPWDYCAVQQGRYHQLLL TKEEIEVQRSKKMCLLQAFLIC CQKSHFLGPGCTRSMVPASASG ESLKLLPLMVEDEGEPVTERE\R KREGERERGRERERRRRRKRK RRRKRRRKRRRRRRRRRG*EFLS LG*NERGKRRRIEGERDKYVKE NEKQTCVQKERHSCTGNSPNH MATVQAERGALDSHGGWHPW DYCAVQQGRYHQLLLTKEEIE VQRSKKMCLLQAFLICCQKSHF LPGCTRSMVPASASGESLKLL PLMVEDEGEPVTEREQEEGGGE RERERERKKEKEKEKEKEKEEK EKEKEKEERIRVPLPRVELRLT NIAAKQVGNITLDVAAPADHPS ESSCVYVRFVIKIPVAASFRFKK SYVTNNVESCEDGIHYFWKSH MHSENSCSCKLPCPHLPAAER LGDALEPLLPTMRQRQCQNT GDGCDGRRQIGTRETMRDTS VAVKTQVDTSREGMGVEVPNS CFWRDTHMASGVGAAFEELPH DGTCECEPDEAPGAEEVCREC GFCYCRRHAEHRQKFLSHHL AEYVHGSQAWTPPADGEGAGK
22630	52998	A	22758	348	881	WRQPRWPHHQACLWQRAGSS YSQHKDPHFTSFSTPRAVQNF GFPCPFLRETTTLVLIPSVPLTDP GSFYRAWFSQCGRSPRPLLGR TLSQKFLRLRGRPRRPYMSTL TPF*STRIFERAFQVMGAESGG RIEKTTLCKRSLGPLMEPRV
22631	52999	A	22759	1	347	MVPASASGESLKLLPLMVDER EPVTERE/REKGRGREREGERE KREGERERERERGERKGERER RRG*QPPFHNRFSEGQGRSFLCS RRPRVSRRGHTSRGPARKAAE RRGLG
22632	53000	A	22760	145	258	PENGLIGLS*KIVLSLNIPVNN DMKVDEVLYEDSSTA

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22633	53001	A	22761	1	1479	MALKEIFCPVRETETCTINCGTR ISPSILHVGLPYPSTPNVKPERE GCGGGVSGNSKQPGALETAESE GKKEGRREEGSRPESASSLSLLL SLAYDVKSAQICTRIHSSVPLE AVYPGYIHQSIINQADLSALAPY DPCVCQIHKYHGAYNCLQYSV QNTLYSPTTEQYKRCQAPWVL PAIFTIPASGAAASAVPVRAQA QGGQAAGQRRRLATAPLTGEG EPDHGDRTRAGSQGPPEARPRIH LGAARGGDRTRGRPGRRGRDW TRLGREMAAAA VSSAKRSLRG ELKQRLRAMSAEERLRQSRVLS QK\ \VIAHSEYQKSKRISIFLSMQ DEIETEEIHKD\ \ICQRGK\ \ICFIPPV RFSRA\ \TMDMVRIGSPGNNFFN FPKTSWEYSLRLGEG\ \DVREEG LVPPGGL\ \EILILPCPQALGLDQ NHGQPRLG\ \RGQGAYL*CLS*K RLFCSHSGKLPPTPPGGWLFK EQICPPRSPVNNENDMK\ \VDEVL
22634	53002	A	22762	1	813	
22635	53003	A	22763	1	368	
22636	53004	A	22764	327	4281	SASASRCDPGSGSRREREELQ WRRRRRRRRRRRRRRRQRQRA AAPAAPAGGIEAVNMASASYHI SNLLEKMTSSDKDFRFRMATND LMTLQKDSIKLDDDSERKVV KMILKLEDKNGEVQNLAVKC LGPLVSKVKEYQVETIVDTLCT NMLSDKEQLRDISSIGLKTVICE LPPASSGSALAANVCKKITGRL TSAIAKQEDVSVQLEALDIMAD MLSRQGGLLVNFHPSILTCLLP QLTSPRLAVRKRTIIA
22637	53005	A	22765	2	271	
22638	53006	A	22766	299	451	IVALFRSLVRHLRGTMAMESTA TAAVA AEL/V SADKIEDAPAPST SADKVES

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22639	53007	A	22767	1	1122	MATESTATAAIAELVSANKIE DVPAPSTSADKVERIENGVLGN TLDGVHVEEEEAGEKTEDESLVE NNDSEEDARKELREQVYDSM GEKEEAKKTEDKSFAPETDKE QDCEMEKGREDMDISESAEEP QEKVDLTGLWLTEISEGAKGG GAPEGPNEAEVTSKGPEQEVDP VEEEKSVSETDVQKECREKGG WEKHREVIVSIEEKPKVSEEQP VVILEKQGTAVEVAESLDPTV KPVGVGGDEPEEK/GTVPGLSR PSPCRDPLPAGLGLWVQLSV** GSGTVQQIY*SH*EENGCTKRA GEGG*RIVC*IQERN*GTEGTAT RNYRKDRRCKGVSDYWECS*T GSESYSGGELYFRFHS*WRRLF
22640	53008	A	22768	223	339	
22641	53009	B	22769	341	496	
22642	53010	A	22770	12	1099	VSGVPNCLFFSQALFRSLVRHL RGTMAVESTATAAVAAELVSA DKIEDVPAPSTSADKVESLDV DSEAKLLGLGQK\HLVMGDIP AAVNAFQEAASLLGKKYGETA NECGEAFFFYG\KSLLELARME NGVLGNA\LEGVHVEEEEAGEKT EDESLENNDNI/D*N*RLGRG* *RK**D*RNAK*FSP*KQVSSRK *GGGDWEPRACLGAGFSKDH F*KARNKRSTALCCPGTS*TRRS *C*I\KLCASC\GGVPVLP*PTGP VPGSPRPSPCRDPLPAGLGLWV QLSV**GSGTVQQIY*SH*EQNG CTKRAGEGG*RIVC*IQERN*GT KGTATRN*REDRRCKGVSA*W ECS*TGSESYS

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22643	53011	A	22771	11	2485	VSGVPNCLFFSQALFRSLVRHL RGTMAMESTATAA VAADVVS ADKIEDVPAPSTSADKVESLDV DSEAKLLGLGQKHLVMGGIP AAV\NAFQGAA\SL\GKKYGET ANE\CGEAFFFYG\KSLELARM ENGVLGNALEGVHVEEEG\EK TEDESLVENNDN\IDEEAREELR EQVYDAMGEKEEAKKTEDKSL AKPETDKEQDSEMEKGGREDM DISKSAEEPQEKVDLTLDWLTE TSEEAKGGAAPEGPNEAEVTS KPGQ\EVPDAEEKSVSGTDVQ EECREKGGQEKQGEVIVSIEEK PKEVSEEQPVVTLKQGTAVEV EAESLDPTVKPVDVGGDEPEEK VVTSENEAGKAVLEQLVGQEV PPAEESPEVQTEAAEASAVEAG SEVSEKPGQEAPVLPKDGAVN GPSVVG DQTPIEPQTSIERLTET KDGSGLEEKVRAKLVSQEETK LSVEESEAAGDGVDTKVAQGA TEKSPEDKVQIAANEETQEREE QMKEGEETEGSEDDKENDKT EEMPNDSVLENKSLQENEEEEEI GNLELA WMDLDAKIIIFKRQET KEAQLYAAQAHLKLGEVSVES ENYVQAVEEFQSCNLQEYQL EAHDRLLAETHYQLGLAYGYN SQYDEAVAQFSKSIEVIENRMA VLNEQVKEAEGSSAEYKKEIEE LKELLPAEIREKIENAKE\SR\SG
22644	53012	A	22772	52	161	FQNPTGLY/CDTEYNRLQKQQ TEKTKQKKTQFHPICN
22645	53013	A	22773	3	115	FFQNPTGLY/CDTEYNRLQKQQ TEKTKQKKTQFHPICN
22646	53014	A	22774	229	358	
22647	53015	A	22775	257	386	
22648	53016	A	22776	259	294	
22649	53017	A	22777	217	398	KA WWNLLRKSEPKSCGS*GGL STSRERL VECSSPLGLGYCG**L CHLQEPHYGSLHRMSS
22650	53018	A	22778	1	3386	

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22651	53019	A	22779	391	2100	SRRTAGVRLDILCKDPIMWVSA DGHSYQPQYPKAKRATEFHFF NFKALLARA AVGAARGIHIHRC GLTKRPDARRRRVAGA QGREP AISLPGDRAAGARATRTRGPGP APKMPAIAVLAAAAAA\WCFL QVESRHLDALAGGAGPNHG\NF L\DNQ\WLSTVSQYDRDKY\W NRFRDEVEDDYFRNW\NPNKPF DQAL\DPKDPCLKVKCSPHK\A CVTQ\DYQTAL\CVSRKHLLPR QKEWGTWAQKHWGLDL*ILV K\CKPCSRGRSSAMGLAGSDGP LLTAFQVANLEFHACSTGQK/S FATLCDG\PCPCSSQSLEPPKHK GRKGVPCTDKELRNLASRLKD WFGALHEDANRVIKPTSSNTAQ GRFDTSILPICKDSLGMFNL DMNYDLLLDPSEINAIYLDKYE PCIKPLFNSCDSFKDGKPLNNE WCLLPSQNPGLP/CAQNMNR IQ\KLSKGKSLGAFIPRCNEEG YYKATQCHGSTGQCWCVDKY GNELAGSRKQGAVSCEEEQETS GDFGSGGSVLLDDLEYERELG PKDKEGKLRVHTRAVTEDDED EDDDKEDEVGYIW
22652	53020	A	22780	2	441	HGVQGAGCGEVA AVSIELGAG GPVWRAAPRACSRQLLRGFG LEGQWFGESCCRRGAS*EGSTR *PPRRQPWPEWVMSWVPET REPARISPAPAKQN*PPPAPKSP AAPA\PQAAVAATPSPPGEISEA WDSLESFSKPAFFSQ
22653	53021	A	22781	3	121	

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22654	53022	A	22782	2	1488	FVNNMADGEEPEKKRRRIEELL AEKMAVDGGCGDTETWKDR\ WNHVKK\FLERSGPFTHPDFEP\ STESLQFLLDTC\VLVIGAGG\ LGCELLKNLALS\GFRQIHVID\ MDT\DVSN*IRQFLFRPKDIGR PKAEVAAEFLNDRV\PNC\NVV PHF\NK\IQDF\NDTFY\RQFH\IV CGTGTLSCARRWINGMLIS\LN YERMVS*DPSSIVPLID\GGTEGF \KENARVIL\PGMTACIECTLEL YPPQVNFPMCTIASMPRLPEHCI \EYVGMLQWPKEQPFGE\GPL DGDDP\EHIQWIFQKSLERASQY NIRGVITYRLTQGVVKRIIPAVA STNAVIAAVCAT*/EVFKIATSA YIPL*IITWVFNDV\DG\LYTYTFE GRKGK\ENCPAC\SQLPQNISVF LHQAKLQ\EV\LG\IIL\TNSASLQN EILPAITATLGGEKIGTLYLQSV TS\NEERNRANFFQTIERNWGLL DGPKTGRLLDVTT\QTVLFQTS ILLKKGKSPT
22655	53023	A	22783	1	1719	
22656	53024	B	22784	199	460	
22657	53025	A	22785	226	1620	NGSGLALATGNRDPGLCPLSAP SCPWR*KSAGASTQQAYSSQSQ /HPAYHRITPT\LTNFALRLYKEL AADAPGNIFFSPVSIS\TTLCLLC LG\AQANNSALILEGLGFNL TET PEADIHQGFRSLLHTLVLPSPKL ELKVGNSLFLDKRLKPRQHYFD SIKELYRAFAFAHFTDSVTTGR QINDYL*RRTYWPGVDLPFRS/L ARDTFMVLA\NFI\FSKAKVKA TLSSRVPDPKSRPVFLVDERTSF \QVPMMHQKEMHRFLYDQDLA CTVLQIE\YRGNALALLVLPDPG KMKQVEAALQPQTLRKWGQL LLPSLLDLHLPRFSISGTYNLEDI LSPNWFSPITYTLNKITSLSQSVG G*LNKSISKVSHKSMVDMNEK GDQRPGLLQASSPSHL*/YTMS DPHAHFNRPFLLLLWEVTTQSL LFLGKVVPVWVWVTMVGGE LSYLILDQTDREPEACILGLLCG
22658	53026	A	22786	64	288	
22659	53027	A	22787	1	1923	

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22660	53028	A	22788	309	2286	CAVCHISFQDTPVLVSSNVTMQ FGSKPLFENISVKFGGGNRYGLA IGANGSGKSTFMKILGGDLEPT LGNGSLDPNER\IGKLRQDQFA FEEFTVLDTVIMGHKEL\WKVK QERDRIYALPEMSEEDGYKVA DLEVKYGEMAGYSAEARAGEL LLG\VGIPVEQHYGPMSEVAPG WKLRLVLLAQALFADPDILLDE PTNNLDIDTIRWLEQVLNENNS TMIISHDRHFLNMVCTHMAD LDYGELRVYPGNYDEYMTAAT QARERLLADNAKKKAQIAELQ SFIDKIKLEEVKASSRQNPFIREF QDKKLFRNALEVEGLTKGFDN GPLFKNLNLLLEVGEKLAVLG ^T NGVGKSTL\KTLVGNLQPDG TVKWSENARIGYYAQDHEYEF ENDLPVFEWMSQCKQ*GDDEQ AVRSIFGRLLFSQDVIKKPAKVL SAPFCKDSILEAIDAGIKLIITITE GIPTLDMLTVKVKLDEAGVRMI GPNCPGVITPGECKIGIQPGHIH KPGTGELNITTGGIVKARDTQIA LNDKSKGDVRVDGQNSLLET NMYVGTS ^T GTGLTLTNNGTLN VEGGEVYLGVFEPAVGTNLNIGA AHGEAAADAGFITNATKVEFG LGEGVFVFNHTNNSDAGYQVD MLITGDDKDGKVIHDARHTVF
22661	53029	A	22789	1	553	
22662	53030	A	22790	1633	2207	ILFFDKGMPAQTPSLQKRWEK M*LVLW*GDREGIKAI/ISEESW GARAPIFLLR/MMEDQGLYSIR MGGARGLPGKSLAL*GAGRGF YSGERTWTLSPSGNCAPYQR GGWWYHACA\HSNLNGVWHH GGHYRSRYQDGVYWAEFRGG AYSLRKAAMPHLAPEAVTLCSE GPLGPRGHWSAGAPSCSGHTFF
22663	53031	A	22791	34	210	AAADPLRHLRRGAFIKAGRHA G/PSLPVCLQATA\H*MDLARLA LVLVVRTSASTKSSTRE

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22664	53032	A	22792	397	1168	LLSRISKVSSKLPVRGGAGSLCTGDQRK\RRKFL\ETVELQISLKNYDPQEGQSAFSGHPSRL*\VSPPLSSLVCVLGGPSKHL*RRLRPVGYPPTMDIEGA*KKLNQELKNLVKKAGPRKYDCVFWPQESLDSSKIPPNPSGPGFK*RAGKVPFPCLTNKGKHGLAQSGIEVEVPTF/LSFQMKKG VYVWAVVWSRE R*QTNELVYNIHLACQLSWVSL LKEKNWQ\NVPGPYIHKSTMGQSPSSHILRHIRINSITS
22665	53033	A	22793	1	377	SVSRVPTRSLRTSTWRLAQDQTQDTQLITVDEKLDITTLTGVP EEHIKTRKVRIFVPARNNMQSGV NNTKKWKMEFDTRERWENPLM GWAST\WSYDIEERKVPKPKSKSYGANFSWNKRTRVSTK
22666	53034	A	22794	183	368	
22667	53035	A	22795	3	623	ILAFACSKMAAVSMSV\VL RQTLWRRRAVAVAAL\SVSRVPT/R RSLRTSTWR\LA\DQTQDTQLITS**KIGISLTFNWPFP EEHIKNEKSGIFVPCSPITCQSGVNNTK\KWK\MEFDT\RRER\WEN\PLMG\WASTGLIPLS\NMVLNLPVLKE DAVS\FAEK\NGWELWTLEERK\VPKPKSQVFMGANFS\WNKRTRVSTKIGLALTISPA
22668	53036	A	22796	1	798	MNKVNPTQQDKEDHPELIITSIGDKRQLTLEAASGVCHRGQTQTRVKEESKKFLISMSFRGGKPVHKVVERACVCTCLHHTSVPATHNTQRRHTTPTTRKNGRKRGRGKEREKRDREHNTGRRTKRKKTRNIGGQRTQKQKQSEDKARR EPGGGRKQGRGREDGTRQRRGGRTRNREEGAQRGRNGR/RGEGRRTEEETHMA*APDITATQQTEQQHGHTRQRDITLRRHTAEDAQPSEHASADQAHTKKTE*SVSR TNGQYLLT
22669	53037	B	22797	85	322	

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22670	53038	A	22798	165	4733	AATALLTHGQEEGQVEGQDED IPPITCVQNGRLRYHDRVWKPE PCRICVCDNGKVLCDDEVICDET KNCPGAEVPEGECCPVC PDGSR VTHRPKKPPGVEGPKGDTGPPR PKGT\PGPPGRDGIPGQPGLPGP PGPPGPPGPPGLGGKLLLPKLSY GYDEKSTGGISVPGPMGPSGPR GLPGPPGAPVSIQDVFICLLGLW SFGGKTGMRAGEMLRDLLGPQ GFQGPPEGEPGASGPMGPRG PPGPPKNGDDG
22671	53039	C	22799	88	392	
22672	53040	A	22800	37	293	
22673	53041	A	22801	55	1917	GGGGVRRRRGTRRSEPGDSRSA MAPIGLKAVVGEKIMHDVIKK VKKKGEWKVLVVDQLSMRML SSCKMTDIMTEGITIVEDINKR REPLPSLEAVYLITPSEKSVHSLI SDFKDPPTAKYRAAHVFFTDSC PDALFNELVKSRAAKVIKLTETI NIAFLPYESQVYSLDSADSFQSF YSPHKAQMKNPILERLAEQIAT LCAT\KEYPAVRYRGEYKDN ALLAQLIQDKLDAYKADDPMT GEGPDKARSQLLILDRGFDPSSP VLP*I*LFQGMSY*SCLPIENDV\ YKYETSGIGGGHGVKGGASGT EDDDLWIALR\HKHIAEV\SQE VTRSLKDFSSSKRMNTGEKTT MRDLSQMLKKMPQYQKELSK YSTHLHLAEDCMKHYQGTVDK LCRVEQDLAMGTDAEGEKIKD PMRAIVPILLDANVSTYDKIRIIL LYIFLKNNGITEENLNKLIQHAQI PPEDSEIITNMAHLGVPIVTDST LRRRSKPERKERISEQTYQLSR WTPHDKDIMEDTIEDKLDNK\HY PYISTRSSASFSTTAV\SARYGH WP*GTRPPGEYRSGP/RVFIIHFP LGGVSLNEMRCALRR*PRANG KWGGA**GSTHILQPHRNLP GH

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22674	53042	A	22802	46	1931	GGGGVRMLCGTRRSEPGDSRS AMAPIGLIAVVGEKIMHDVMI. NDLNMGEWKALLVDQLSMRM LSYCCLMTDIMTEGITIVEDINK RR*PLPSLEAVYLITPSEKSVHS LISDFKDPPTAKYRAAHVFFTD SCPDALFNELVKSRAAKVIKTL TEINIAFLPYESRVYSLDSADSF QSFYSPHKAQMKNPILERLAEQ IATLCATLKEYPAVRYRGEYKD NALLAQLIQDKLDAYKADDPT MGEGPDKARSQLLILDRGFDPS SPVLHELTFQAMSVDLLPIEND VYKYETSGIGEARVKEVLLDED DDLWIALRHKHIAEVSQEVTRS LKDFSSSKRMNTGEKTTMRDL SQMLKKMPQYQKELSKYSTHL APCLRTC MKHYQGTVDKL\CR V\EQDLAMG\TDAEG\EK\KDP MRAIVPILLDANVQTY*QIRIILL YIFLKNGITEENLNKLIQHAQIP PEDSEIITNMAHLGVPIVTDSTL RRRSKPERKERISEQTYQLSRW TPIIKDIMEDTIEDKLDTKHYPYI STRSSASFSTTAVSARYGHW HK NKAPGEYRSGPRLIIFILGGVSL NEMRCAYEVTQANGKWEVLIG STHILTPTKFLMDLRHPDFRESS RVSFEDQAPTME
22675	53043	A	22803	2	51	
22676	53044	A	22804	236	451	LHLPLFLGAIRSGQYGLWNLFR VLGWTCSLGIYLGWRVS*NFG RGTKALKVLSTIS/E*RNHHCHP *NNIFVY

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22677	53045	A	22805	3	1173	GAGAPAAGQAGLTSTSAVRAR PVSPARQSQDPAASLSLHLSLPP APGAGCARWRRRGPPQAAMAA GAGAGSAPRWLRALSEPLSAA QLRRLEEHRYSAAAGVSLLEPPL QLYWTWLLQWIPLWMA PNSIT LLGLAVNVVTTTLVLISYCLTAT EEAPYWTYLLCALGLFIYQPLD AIDGKQARRTNSCSPLGELFDH GCDSLSTVFMAVGASIAARLGT YPDWFFSRSFYLGCLVFYCAH WQTYVS\GMLRFGKVDVTEIQI AL\VIVFVL\SAFG\GATM/WGD YTIPILEIKLKILPVLGFLGGVIFS CS\NYSHVILH\GGVGKNG\STIA GTSVLSPGTPH/MGLIIIL\AIMIY *KVRQLMVF*KSIPCL*YPQCLG CVF\AKVSQKISGSSHDQK
22678	53046	A	22806	2	1091	CPGRRRRRRPGRSRARATALPT PGPRKRGGPAGRKRRERPERCSS SSGGSSSSGDEDGLELDGAPGR GKRAAQPVAAGKVGGA AVVV AEPEHTKKHKVLETLLITTEGK LWSWGRNEKAQLGHGDTKRV EAPRLTEGLSHEVIVC\TCARNH TLALTETGSVF AFGENKMGQL GLGN*TD AVSPVQIMYNSLPIT KMA/CGYGLGYTEQKDEMV PRLVKLFD FPGHGASQIYAGYT CSFAVSEVGGLFFWGATNTSHE STMYPKAVQDLC SWRIWSLAC GKSSIIVA ADESTISWGSPSTFG ELGYRDHKPKSSTAAQEVKTL HGIFSEPVAMGYSHSLVIARDE SETEKEKIKKLPEYSPQTL

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22679	53047	A	22807	1	1409	MSLGLASERLWAGLGLPALPL ADEGGECGETLFVWRSQKLEG SKCKGQLLIFGATNWDLIGRKE VPKQQAAYRNLGQNLWGPHR YGCLAGVRVRTTVSGSCAAHS LLITTEGKLWSWGRNEKGQLG HGDTKRVEAPRLIEGLSHEVIVS AACGRNHTLALTETGSVFAFGE NKMGGQLGLGNQTDVPSPAQI MYNGQPITKMACGAEFMIMG LQRKPLFLWGALNMGQLGTQL RMGKFHSPGAQRIEYDCELVPR RVAIFIEKTKDGQILPVPNVVVR DVACGANHTLVLDSQKRVSFW GFGGYGRLGHAEQKDEMVPRL VKLDFPGRGASQI/SCWL/HTC SLCCQ*NGWSVFLGGHQHLP*I YHVPQKQCRTSAAGESGTAC GKSSIIVAADESTISWGSPPTFG ELGYGDHKPKSSTAQEVKTL DGIFSEQVAMGYSHSLVIARDE SETEKEKIKKLPEYNPRTL
22680	53048	C	22808	277	518	
22681	53049	A	22809	2	192	
22682	53050	A	22810	1	2946	MAEAGLRGWLLWALLRLAQ SEPYTTIHQPGYCAFYDECCKN PELSGSLMTLSNVSCLSNTPAR KITGDHLILLQKICPRLYTGPNT QACCSAKQLVSLEASLSITKAL LTRCPACSDNFVNLHCHNTCS NQLSFINVTRVAQLGAGQLPAV VAYEAFYQHSFAEQSYDSCSRV RVPAATLAVGTMCGVYGSAL CNAQRWLNFGQDGTGNGLAPLD ITFHLLEPGQAVGSGIQPLNEGV ARCNESQGDDVATCS
22683	53051	A	22811	258	362	
22684	53052	A	22812	1	4038	MAEAGLRGWLLWALLRLAQ SEPYTTIHQPGYCAFYDECCKN PELSGSLMTLSNVSCLSNTPAR KITGDHLILLQKICPRLYTGPNT QACCSAKQLVSLEASLSITKAL LTRCPACSDNFVNLHCHNTCS NQLSFINVTRVAQLGAGQLPAV VAYEAFYQHSFAEQSYDSCSRV RVPAATLAVGTMCGVYGSAL CNAQRWLNFGQDGTGNGLAPLD ITFHLLEPGQAVGSGIQPLNEGV ARCNESQGDDVATCS

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22685	53053	A	22813	198	380	ASSEDSTPCR*MAYSWPPNSN SSHCIKELPLFMGKIPAAAS*DGG PQGLAIFPPGVIVGI
22686	53054	A	22814	1	154	
22687	53055	A	22815	35	486	PARRGRDEC*VLAPFRATRPPS RRTR*SKATYPTPSNDQTRTIRT SRERASMPRSAEPKRPTIPRLHP SPRGIVTVSS/RPRSHALPVSHIH SCHSRTAISDNQVPAFLQVYGE EVRKRAGEVTQAITGFPRYRLF FKMLRCHRSIQVTAST
22688	53056	A	22816	212	365	RCRSGPAPRSAPGARPASPPA AGTCR*RPAGHCPAGAAAGLLSL CPRCST
22689	53057	A	22817	293	618	QQNPTNCLPPASR*SKT*RARST AGPTRPHLHHPAAPAGSPACA GEGRLQR/HSPNPLYFNWKKQR FAAKPHFRRPQSSLNPQQWLLA GLLQEESSSLGTDAPLHSLG
22690	53058	A	22818	3	1129	FCLDDLSSAINEHLSARGRRRS IVKVS LHPAVIGLKSFLKKPD QLRKLF\IGGLSFETTTDESLRSHF EQ\WGTLTDCVVMRDPNTKRS RG\FGFVTYATVEEVDAAMNA RPHKVD\GRVV\EPKRAVSREDS QRPGA\HLTV\KKIFVGGIKEDT EEHHLRDYFEEIILNSMGKLEV VEIH*LDR\GQWPRKRGFAFVT FDGHDSVDKIVIQKYHTVNG\H NCEVRKALSKQEMASASS\SRQ G\RVGSGNFWCGRT\NGFGGND NFG\RGGNFWSVVAFGG\SRG GVWIWVA VGDGYNGFG\NDGS HFG\GGGSY\NDFGDFH\NQSSK FWTP*RGGNLGGQKLWPPMGG GG\QYFAKPTKPKVAYGRFPAA ASSYGKWPEDFN
22691	53059	A	22819	1	568	MGKMSPGHVRDFHGSCHHNR GGPGGKSGFMGQALGPG/GCV QPRDLVLCVSATPAMAERGQC GAQAVASEGGSPRPWQLPCGV EPADFRRYMETPGCPGRNL/PA GAGPL*RTSAGAVWKG NVRSE SP/PQSLYWG T ASGAVRRGPPSS RNQNGRSTD SLH CM PGKDTQ\ P NP*KQPGGRLHPAKPQGRSCP
22692	53060	A	22820	232	389	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22693	53061	A	22821	3	401	VGVCEKRGAPG\PP LAPGPARG PVAAA VPP/GPGASRARP*DAA AAAGGRGPPEQ*T*KAWGLHP GTGSL/RGHPAPM*PLLRAFPRS PLHPLPPPHPLPRRAA\SNPGTS KCRTAAGTRQWGGRQSQLQRC QCLR
22694	53062	A	22822	1	410	MGKMSPGHVRDFHGRPSHHRP RGPGGKSGFVGKVQGP HAVCS LGTWCLVSQPLHP\G*KGPMYS SG\VASEGGSPKPWQLPRGVEP MGAQKSRTEVWEPLPRFQKIY GNTWMPRIPMCCARDPGGAKG GCSNPSQRR
22695	53063	A	22823	264	979	GPRHADPANFSARNLSRP*DAP GRVQDPRPQAPQL\PPGLGAPSR VRRPPRRPVDR TLPGGPRPPA AAA\GPTGGRGS\PRAGGTAAA TGPRAGPGARGAAGSAPFLTDP NM\GRPPPPATTTPGAATAPGP REEAPGKFRVSPPGPSGAGGPP TRASPTPTAAGGGGGDSEGE GP ILLVADAG\PDSARSPPGLPGCV LSAAPRSRRDPDAVGG LAASA AARRLNTTWKLPQLGASTL
22696	53064	A	22824	271	426	
22697	53065	A	22825	546	1296	KMVDCLANSEANTRRISIVENC FGAAGQPLTIPGRVLIGEVLT KL\CRKKPKARQFFLRNDIVV* GNIVIQKKKYIKQHIPL ENVTID SIKDEGDLRNGWVIKTPTKSF\A VYAATATEKSEWMNHINKCVT DLLSKSGKTPSNEHA AVWVPD SEATVCMRCQKAKFTPVNRRH HCRKCGFVVCGPCSEKRFL LPS QSSKPVRICDFCYDLLSAGDMA TCQPARSDSYSQSLKSPLNDMS DDDDDDDMQ
22698	53066	A	22826	1219	2370	
22699	53067	A	22827	164	601	DRTNIMVGYHQTNQKTD TGKT PTRRPVLVDH\NRLPEGSRGRL AVAVAGDH PAAVQVTMTLVN DTGFDPVFSGSIAESWGQHSGT PSYC*DWEAATMLRAFPLAKK GETKDLRQFPNIDNAYMELGT NRADAVLHDT PNILYFMQF
22700	53068	A	22828	2	91	

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22701	53069	A	22829	1	1188	MGAEPSSLTSLGTLWSGERFQC MRAKIWERSRKGRFFSTDVISP TKDSFAGPFQPISTDLVQHQRİY GLKVCVLPDPCKIRILKPNPQC VGKWEVEVAENEIQVFGGERF DINKYSKSPPPPTPQPLYLTAGF ASCRNHRKSEELREGKGESPGK SKPFHLQANFTVALVTTLQGDK HSQEA FIRPVA KAKTTCTYLSN VCEMKDFKRINCPDPFHKMAP KAKKEA\ PAPPKAEAKAKGFK GPRRQVLK\GVHNHKKRKRKK ERSRTFTHLRRPGRPLR\RRQP \KYP SGRAAPRRNKLD\HYAIIK FPLT\TESA\MKKIEDNNTL\VF\I VELLKATTKNQIKQGC*RSLYD \DVGQGSTPWISAWMGEKKGI CSD\ LAPDLPIAFGMFANKIWGFI
22702	53070	A	22830	1413	2197	RVEWRWYNVLPCLDVHSGPVD RRSHVMTAAEKPPFCPAWGQA VSQQSCALEPRTGEEGGKGIQ PASGLFPTGEEISVVPNRWLDA SLSPVILGVQGVGSQCLSCGVGQ EPTLTLEVRLGASSLGTQPQML SLLKPGSPQPWCCGTP*QDSVD GSFASSLRILAKALLCGPGFCPS LTLPSFCRKPVTIME\LYLGAKE S\KSFTFYRRDMG\LT\SSFESAA\ YPGWFLCTEPE\ADQPVRLTQL PENG GWNA PITDFYFQQ\CD
22703	53071	A	22831	100	177	KRDHF*SRLQQVSRSVRWSSA TDSR
22704	53072	A	22832	610	1080	
22705	53073	A	22833	1169	1308	

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22706	53074	A	22834	1	1889	ACRRRAGTWTPPRPGSGSRA MAGNCGARGALSAHTLLFDLP PALLGELCAVLDSCDGA LGWR GLAERLSSSWLDVRHIEKYVDQ GKSGTRELLWSWAQKNKTIGD LLQVLQEMGHRRAIHLITNYGA VLSPSEKSYQEGGFPNLFKETA NVTVDNVLIPHEHNEKGVLLKSS ISFQNIIE\GTRNFHKDFLIGERG E/IFGGYQEGKIQTLYAVKLFK QEKKMQCKKHWKRFLSELEVL LLFHHPNILELAAYFTETEKFC LIYPYMRNGTLFDRLQCVGDT APLPWHIRIGILIGISKTIHYLHN VQPCSVICGSISSANILL\DDQFH PKLTDFSMAHFRSP\LEHQSCCI NMPSS\SRKHLWY\MPEEYIRQ GKLSIKTDVYSFGIVIMEVLTGC RVVLDDPKHIQLRDLLRELMEK RGLDSCLSFLDKKVP PCPRNFS AKLFCLAGRCAATRAKLRPSM DE\V*RALESTQASLYFAGDPP TSLKALRGP\SPLF\LEKVT\SIPV \EDDEKPNNNLLPS**KALRMK RWPQK\TPF\ECSQP\EVWFLSLE QKAREARENEEACNMPSSS\CE ESWFPKY\IVPS\QDLRPL*GK*K ILSSQA\SGHSC\RTKPVESSCSS KFSWDEYEYKKE

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22707	53075	A	22835	1	1560	RWERGGKRFRAADPMSALRRS GYGPSDGPSTYGRYYGPGGGDV PVHPPPLYPLRPEPPQPPISWR VRGGGPAETTWLGEGGGGDG YYPSSGAWPEPGRAGGSHQEQ PPYPSYNSNYWNSTARSRAPYP STYPVRPE\LQQQSLNSYTNGA YGPTYPPGPGANTASYSGAYY APGYTQTSYSTEVPSTYRSSGN SPTPVSRGIYPQQDCQTEAPPLR GQVPGYPPSQNPGMTLPHYPY GDGNRSVPQSGPTVRPQEDAW ASPGAYGMGGRYWPSSAPSA PPGNLYMTESTSPWPSSGSPQSP PSPPVQPKDSSYPYSQSDQSM NRHNFP/CASVHQYESLGDQ*T MDDSRILLDSPSPSIVPEPSACM GNAHPVTHP\NNQDQSSSLPEE CVPSDESTPPSIKKIIHVLEKVQ YLEQEVVEEFVGKKTDKAYWLL EEMLTKELELDSVETGGQDSV RQARKEAVCKIQAIKLEKKR IMKGFITKWKPVNTLTKEHLIW LITLFLKCLLMTRSNTFQLFL
22708	53076	A	22836	8	207	TPVPRALRSPAGLEGSHLSSIST MMPAVMSVGKVTENGSGSPQGI KSPSKPPGPNRIG*RNQVSVHT
22709	53077	A	22837	459	5520	RQVRPAGLEGSDDLSSINTMMSA VMSVGKVTENGSGSPQGIKSPSK PPGPNRIGRRNQETKEEKSSYN CPLCEKICTTQHQLTMHIRQHN TDTGGADHSCSICGKSLSSASSL DRHMLVHSGERPYKCTVCGQS FTTNGNMHRHMKIHEKDPTSA TATAPGRGDFASAKSSKRKLSH DAESEREDPAPAKKMVEDGQS GDLEKKADEVFHCPVCFKEFV CKYGLETHMETHSDNPLRCDIC CVTFRTHRGLLRHNL
22710	53078	A	22838	164	434	
22711	53079	A	22839	23	242	
22712	53080	A	22840	187	325	
22713	53081	A	22841	1	130	NCPMCWPGQSPRPST*GRRNP PPKRRSVSAES*RHWQSPSP
22714	53082	A	22842	614	774	QEPMRMCTMLANSSPSSSQATP PGL*SWNQPSLPARTLSRHEWT SCLGSSANL
22715	53083	A	22843	396	560	LFPHDGIKHKGKENP/PKGP PPP THPQTTPRPADAPLVATKSTLD QAWALLAVATS
22716	53084	B	22844	124	205	

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22717	53085	A	22845	1	2355	MVGSRRISGVIPLPFTRRAGIFS DPRANMQPLWAPVPPATFVPTS LPPVPTARPPTSASCHCQQVPC AGLEVALPGNRTICWLSLWPS WQLDEDAQSPALESSSIRQFPT APRSGYPGTLCPSTFLGPRPRTC EYHSPVLCAPSSRASPSATTTL STRTLWGPAGSHPFVHNTR LSPDLCPGKIVLRALKESGAGM PEQHKDPRVQENPDDQRTVPE VTGDARSAFWPLRDNGGPSFV PRPGPLQTDLHAQSSEIRYNHTS QTSWTSSSTKRNAISSYSSTGG LPGLKQRRGPASSRCQLTSLYS KTVSEDRPQAVSLGHTRCEKG ADTAPGQTIAPTASRPHINTSLH VEDKAISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQQDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSSDPLPA NSSHSRDSAQVTSMIPAPFTAA SRDAGMRRTRSAPAAAAAAPP PSTLNPTSGSLLNEWMEAPHIS WPQPQLQHVPGRQ/NVRYNQR SQTSTRS/CPQTKCQLQLPQLY GRPPGSKAEEG\PASSHCQLALS SSNTVSEDGPQAVSSGHRCEK AGTAPGQTLAPRGSPRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS
22718	53086	A	22846	1	1200	MPEQDKDPRVQENPDDQRRVP EVTGDARSAFRPLRDNGGLS/PP FVPGPGLQTDLHTQR/LGYRV TVEDLDREKEAAFQRINSALQV EDKAISDCRLSRPSHTLSSLATG TSGLPAVSKAPSMDAQQERHK SQDCLGLLAPLAPAAEVPSTAP MSGKKHRPPGPLFSSSDPLPAT SHSQDSAQVTSLIPAPFAASM DAGMRRTSPGTSAPAAAAAPP STLNPTLGSLLIEWIEALHISGPQ PQLQQVPRGQNQRSQTSRTSSC PKRK/CHLQLLQLYGRPPGTKA EEG\PASSHCQLTSSSNTVSED GPQAVSSGHTHCEKTADTAPG QTLAPRGGFPRSQASRPCRHKF PLLPRRRGEPLMLPPPLELGYR VTAEDLDREKEVAFQRIKSALQ VEDKAI

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22719	53087	A	22847	2	1762	YHSKPVLCAPSSRASPSSTTSL TRTLWGPGAGSHPGVHNTRL SPDLCPGKIVLRALKESGAGMP EQHKDPRVQENPDDQRTVPEV TGDARSAFWPLRDNGGSPFVP RPGPLQTDLHAQSSEIRYNHTS QTSWTSSSTKRNAISSSYSSTGG LPGLKQRRGPASSRCQLTSLYS KTVSEDRPQAVSLGHTRCEKG ADTAPGQTIAPTASRPHINTSLH VEDKAISDCRPSRPSHTLSSLAT GASGGPPVSKAPTMDAQQDRP KSQDCLGLVAPLASAAEVPAT APVSGKKHRPPGPLFSSSDPLPA NSSHSRDSAQVTSMIPAPFTAA SRDAGMRRTSRAPAAAAAAPP PSTLNPTSGSLLNEWMEAPHIS WPQPQLQHVPGRQ/NVRYNQR SQTSRTRS/CPQTKCQLQLPQLY GRPPGSKAEEG\PASSHCQLALS SSNTVSEDGPQAVSSGHRCEK AGTAPGQTLAPRGGSPRSQASR PHINTALHVEDKAISDCRPSRPS HTLSSLATGASGGPPVSKAPTM DAQQDRPKSQDSLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS SDPLPATSYHSRDTAQ

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22720	53088	A	22848	292	2053	GSVAWSPFSPSPSSLCLWDLPV APTLWGPAGSHPFVHNTRL SPDLCPGKIVLRALKESGAGMP EQDKDLRVQENPDDQRRVPEV TGDARSA/FLAPAGQWSPLSLC AQSRASADIPPCPEVRNQI*PDIP DHLDELMHQPKCHLQLLQLCG RLAGAKVEEGASGAKEQGRDA *AGQGTPEQQNPDDQRTVPEV TGDARSTVRPLRDSGGLSPFVP RPGPLQTDLHAQSSEIRYNQTS QTSWTSSSTKRNAISSYSSTGG LLGLKQRRGPASSRCQLTSLYS KTVSEDRPQAVSSGHTRCEKA ADTAPGQTLAPRGGSPPRSQGS PRRRKIALPHR*GELQVEDKAI LDCRPSWPSHTLSSLATGASGE PPVSKAPTMDAQQDRPKSQDC LGLVAPLASAAEIPSTAPVSGK KHRPPGPLFSSSDPLPATSSHSR DSAQVTSIPAAFTAASMDVG MRRTRPGTSAPAAAAAAPPPST LNPTSGSLLN\EWMEALHISGPQ PQLQQVPRGQ/NVRYNQRSQTS RTRS/CPQTKCQLELPQLYGRPP GTKGCRHEKNVLC SKLFEGFGF IFVGFFFFAYMGILQLLII

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22721	53089	A	22849	146	1789	RQPSTSGSSRSCPCARRSWWAR TARSGWWWELLGARRSPQTLH CPQATLITLPCPRPSSTTSGSAM T*RGPWRS PGCTTSFCPTSR/PV ERNIDQTDLHAQRSEIRYNQTS QISWTSSCTNRNAISSYSSTGG LPGLKRRRG PASSHCQLTLSSS KTVNSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KHYGKQSLTTAQVNVSKSDDT LKINGVEDHKTIFDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITR GSSRPSIREDENGSRQKPVHPEG DMTMNIKKIVNQATVLTFTTAL LAGGATQAFAKENNQKAYKET YGVSHITRHDMLQIPKQQQNEK YQVPQFDQSTIKNIESAKGLDV WDSWPLQNADGTVAEYNGYH VVFALAGSPKDADDTSIYMFY QKVGDN SIDSWKNAGR VFKDS DKFDANDPILKDQTQEWGEA
22722	53090	A	22850	500	1034	

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22723	53091	A	22851	1	2396	MDKYLLHGPPRPPPAIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSSIRQ FPTAPRSGISPLCAPHSCLGQGR GPASHPTSTQTLDISGVKTTPRR FSVILQDLCSILGDSCLQFHLHR VPQQVSAVLLRVSGASPPATT LSTRTLWGPAGSHPFVHNT RLSPDLCPGKIVLRALKESRAG MPEQDKDPRVQENPDDQRTVP EVTGDARSAFWPLRDNGGSPSF VPRPGPLQTDLHAQSSEIRYNH TSQTSWTSSNTKRNAISSYSST GGLPGLKQRRGPASSRCQLTLS YSKTVSEDRPQAVSSGHTRCEK GADTSPGQTIAPTGGSPRSQDS RPRRRKIPLPRRRGEPLMLPPP LELGYRVTAEDLHLEKETAFQR INSALHVEDKAIPDCRPSQPSHT LSSLATGASGGPPVSKAHTMD AQQHRPKSQDCLGLLAPLASA AEVPSTAPVSGKKHRPPGPLFSS SDLPATSYHSRDSAQVTSILPA PFTAASSDAGMRRTRPGTSAPA AAAAAPPSTLNPTSGSLLNEW MEAPHISWPQQLQHVSRRGQ/N VRYNQRSQTSRTRS/CPPRKCQL QLPQLYGRPPATKAEEGVPASSH CQLAHSSSNTVSEDPQAVSSG HTRCEKKAGAS/RWASRF*STH YGCTAGQTQVPRLPGPTGPPSI
22724	53092	A	22852	1	3392	MDKYLLHDP RPPPAIASRCLA RVPGCAYSSIMVALSLVPLCAH MPTPSGLEVALPGNRTICWLSL WPSWQLDEDAQSPALESSSIRQ FPTAPRSGYPGTLCPSFLFGPRP RTCEYHSPVLCAPSSRASPSA TTLSTRTLWGPAGSHPFVHNT TRLSPDLCPGKIVLRALKESGA GMPEQDKDPRVQENPDDQRTV PEVTGDARSAFWPLRDNGGSP FVPRPGPLQTDLHAQSSEIRYN HTSQTSWTSSST
22725	53093	A	22853	40	409	WKMREHETRYNVLSRGGVCH RLFFLNGVFEHLGRAVQRRKV DTEHQLLRAAVPANQEHRGLT QSQHVDGHSLLLLTLPNSFLCQI QEPSLG\SGSGALSGNVIRIPQA QEAPPEPSVLTLLW
22726	53094	A	22857	3	220	

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22727	53095	A	22858	1	356	MAGPVKDREAFQRLNFFVYQVS LRQGPHGDGARRPRVTAPLPQ AAHCVLAQDPENQALARFYL\H TERTIAKRLVLRDPSVKEELL CRGCSSLLVPGLTCTPAPRDRC RGQRWTGTDLP
22728	53096	A	22859	2	270	
22729	53097	A	22860	2	364	IFSALPAPRRKVGLNLAPVTEPR DQPWAMIIDVF\SRYSGRGQPR QT\LT\KGELKVLMEKELPG\FL QSGKDKDAVDKL\LKDPGRPM GDAQGGTFSEVHPCSVAAIT\SA CHK\YFE\KAGLK
22730	53098	A	22861	282	469	DCGSELQAPPPSLPGPLCPSIM PA/PPYASPPMMPMMGPPFRGM MPVGLAPGPMMLLQYNTCS
22731	53099	A	22862	7	522	SVWWNSNGLQSNMPKFYCDY CDTY\LT\HDSPSVRKTHCSGRK HKENVKDYYQKWEEQAQSLI DKTTAAFQQGKIPPTPFSAPPA GAMIPPPSLPGPPRPGMMPAP HMGPPMMPMMGPPPPGMMP VGPAAGMRPPMGHMPMMPG PPMMRPPARPMMPVTRPGMTR PDR
22732	53100	A	22863	3	455	WFLIHDRTHTEKPYKCNCEV KAFHRSTCLHAHKRTHTEKPY YECNQ*GKAFNSSHSFQIHRT HTGEKPYECKEKGAFKGPSSV RRHERTHSTKKPYECKHCGKA LSYLTFSFHNHLMHTGEISHTC KICGKAFYSPSVIQTHE*THT
22733	53101	A	22864	1	1665	
22734	53102	A	22865	1	2650	

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22735	53103	A	22866	107	2384	MFGVHGTFLGIESRPPLLSLSPS LLYTCEMFQDPVACEDVAVNF TQEEWALLDISQRKLYREVML ETFRNLTSIGKKWSDQNIYEY QNPRRSFRSLIEKKVNEIKDDSH CGETFQTQVPDDRNLNFQEKKASP EVKSCDSFVCAEVGIGNSSFNM SIRGDTGHKAYEYQEYGPYPY KCQQPKNKKAFRYRPSIRTQER DHTGEKPYACEKCGKTFISHSG IRRHMVMHSGDGPYKCKFCGK AVHCLRLYLHERHTHTGEKPYE CKQCGKSFTYSATHRIHERHT GEKPYECQCGKAFHSSSSFQA HKRTHHTGGKPYECKQCGKSFS WCHSFQIHERHTHTGEKPCECSK CNKAFRSYRSYLHRKRSHTGEK PYQCKEKRKAFTYPSSLRRHER THSAKKPYE/CSFYHERHTHTG EKPYECKQCGKAFRCAPHLRR HGRTH/S/AEKPYECKEKGKAFR SASHLQIHERHTQTHRIHSGERP YKCKTCGKGFYSPKSFQRHEKT HTAEKPYECKQCGKAFSSSSSF PYHERHTHTGEKPYECKQCGKA FRSASILQMHAGTHPEEKPYEC KQCGKAFRSAPHLRIHGRHTHTG EKPYECKEKGKAFSAKNLRIH ERTQTHVRMHsverpykckic GKGFYSAKSFQIHEKSYTGGKP YECGLQLPRTAESVDSEKLQG PGKQETHVQLLSLYCLRRVLDC
22736	53104	A	22867	1	391	MKEHIERNPVTIKNVVKPSINT VPLEDMKAHTGEKPYERQKCE LNQRLRDYAFQYHESNSGVVS ADSETKSGHSGCLIKEMKNATK THNGITGGIIFNANHWRNTIY TRIHI/GEKSCDYKCKGKAFNQ YSSLRRHES\HTGEKPYERQKC ELNQRLRDYAFQYHESNSGVV SADSETKSGHSGCLIKEMKNAT KTHNGITGGIIFNANHWRNTI YTRIHINKQEKYQATHVSYAAN
22737	53105	C	22868	179	289	
22738	53106	A	22869	3	206	

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22739	53107	A	22870	1	855	MPRAEPRATLGEQEKAGLPLG AWRLYLRLRHRKQTELRRSGSR DVTGALLVAAAVASEAVGSLR VAEGGPNTLLLQVLR\SWPWC NKEKLTMEERKVKRRSPKSFSA HCTQVVNVQKKMSIPVSK\STG FSNPASQVNFTSRPKVKKEVM K\EKTKPQGLEEGQRHSSQLPIQ HSFLT\DVSRCSRKMERGLLSL\ LNDFHSWKTFFKHFGN\ECN\EQ MEHVSSELQEKLARLNLELYG ELEELPEDKRKTASDSNLDRL SDLEELNSSIQKLHLA\DAQDVP
22740	53108	A	22871	67	598	SIRRHCGQRCLVRIRIWPLKLPP RLAVREGLRCGLTRDVMPPSM SGVVVGPPGP\PPGPCGDTTSGP APGTFGQASAPVSPRRGHGEY LCSSPTPVFFPGLWQPPRAGFTA PERSWSCRGPRWQLRAAWAGR LSSSPVSALLTFKVILSTGLLFG PLGGWKILSSLPEIFANLAT
22741	53109	A	22872	1	372	
22742	53110	A	22873	1	3961	FALAPEAGFYSLGQQPSTRISGS GCVHPVRVWPFSIEPAIGTLNV GESMQLEVEFEPQSVGDHSGRL IVCYDTGEKVFSLYGAAIDMN IRLDKNSLTIEKTYISLANQRTIT IHNRSNIIAHFLWKVFATQQUE DREKYSKVTAVFSIAASSNSRF ALYESSYNSQRSPSEWACDDLI KEEKDETDEFEECITDPLLREH LSVLSRTFANQRLVQGDskLF FNNVFTVEPLGWSEKEMAEIR DVQKKDTKV
22743	53111	A	22874	1248	1716	WYAEQSAHEATAQLSTPMAIR RAVVMPEQRNRTKKEY/SLRI PFGLPGDRMCFFTHRND/PTG NEVTPPSLAADLGQQFGGDAT DRQPWMIHQMLIHQGEQLCF VEHGINMLRLGEILHLAATRHE AHFLAFRQFFNHQRCFALNLA RQDRITDF
22744	53112	A	22875	478	663	
22745	53113	A	22876	508	884	RQRHPDQRPGRSLFHGHGMCP TTPLQQQVDSQHNGDNNSESA P*QRRADSIHRSSLHIKKRPPSE DVSRCFLCIDLAFRQGFTFNKK GIRVRIPFGLPGDRMCFFTHR DDRPAKLLPFAGNKV

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22746	53114	A	22877	1	506	AFCRFSILVGSAFISETDMCLLC PFIGKAISVRLQYFKHETKQSI CLGNQKSPLVCPFFGEQGLDSS SSLDLPSSPNPAPTLCPCVQPPR GPVSVSVPVSVMGSRAPLLSA *LFVSVILGRMVILKNPGVLGQ RQAGPSPGAPGLPSPSVRAPLG HKCSERSPSAT
22747	53115	A	22878	621	877	RRRRRRKQRRKQPWSSPARGA *PGRPRPSLRAAGTRRRRKRRRA SWTRCSNTCPGRCRTC SRSNQA SCPSLLHLLLLFGSFFSY
22748	53116	A	22879	1	1339	MPSYKGCGETQRHATNGTAAP PRRSSCRGDAIKLPHAEKKEGR PPASTSYPLRLGTRSARSSSHC WCTSWEDPPEATAGEEKRIHPK SPA VCCGEGTVLTASTVTWRA EPARGEIWARLCPRDRPGSRAA AVIWERPCCDRLIADRTGPPNSS EPHCRAATIPLPTWPLPEGQTLT LKALAKMAAPALLLLALLLPV GAWPGLPRRPCVHCCRPAWP/L WTLCPGEKGEAGVRGRAGRS KEGAA\GCPGPAGPQSARRGSV GPPGAACRRAYAAFSVGRREG LHSSDHFQAVPFDTELVNLDGA FDLAAGRFLCTVPGVYFLSLNV HTWNYKETYLHIMLNR/QAA/V VLYAQPSERSVMQAQSLMLLLA RRATPVWSVPEELPAVLPGQDE LGSLQLHAHHPLADGLVRHEL QPGLAGSSRTGHLVFRTDHGLR QHASHGCPVGPLHVP
22749	53117	A	22880	532	783	VGSTRGIVEGLIFILGEGGECYY PRSLFTVANFTVGKRV\KTLNC PSTDKWINKMCHIHTVEYYSDI KRNEIPMRATCRQTLKA
22750	53118	A	22881	275	720	TPIHNCFKENKIPRNPTYKEHEG PLQGELQTTSQGNKRGYKQME EHSMLMG\GRINIMKMAILPKVI YRFTIPIKLPMFTFFTELEKTTSKF IWNQKRARIAKSILSRKNKAG/ AHHAT*LQTILQGYSNQNSMVL VPKQRYRPMEQSPQK

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22751	53119	A	22882	1	609	MGRNQSRKAENSKNQASSTP KDHSASPATEQSWMGNDFDEL TELGFRKSVMTNFSQLKEDVRT HHKEAKNLEKRLDKWLTRINSI EETLNDLMELKTMARELRDTC TSFSSRFDQVEEGEIQTIREYY EHL YANKLENLEEMDKFLDTY TLPRLNQEEVESLNRPI TGSEIE AIINSLPTKKIPGPDRFTA*RRP* MT*WS*KPWHENYVTHAQASV ADSIKWKKGKYK\HHQRIL*TP LRK*TRKSRRNG*IPGHIHSPKT KPGRS*IPE*TNNRF*N*GNN**P TNQKNSRARQIHSQILPEVQRG
22752	53120	A	22883	191	564	PNARKLRTLKDHSPD**RRKL RKIK*MQ*KMIKGISQSRSHRNT NYHQRTL*TPLHK*TGKSRRNG *IPGHIHPPKSKPGRSQIPEYTN KI*N*GSN**PINQKKSRTGRIHS QILPEVQRGA
22753	53121	A	22884	337	589	TRRSRRNG*IPGHIHPPKTKPGR SRIPE*TNNRL*N*GSS**PTNQK KPRTRETDSRILPEVQRGAGTIP SETIPNNRKRGTTP
22754	53122	A	22885	162	539	TRKSRRNG*IPGHIHPSKTKPGR S*IPEETNNKF*N*GSN**PTNQK KPRTRQVHSRILPEISHGMGKS WKQSL*KPAQDKAVPSLIAPIQ HIIGSSGQGNQARERNKGYSNR KRGSIQIVSVCR
22755	53123	A	22886	329	459	NDDTFRKPHRLSPKSP*AADKQ LQQLRIQNQCAKLRSIPIHH
22756	53124	A	22887	58	440	GLSRQFSPHSVNKAAGEVPTGR GPPQLSKANVARLPLSIPPLWA GHLWKKGGSPSQGIIDKTLISLG QST*GKGQLWVQLQRT*AFLPA GSEESSGSPSTA/PNSAKGQTPS SSGSLTRASSSSLYLW
22757	53125	A	22888	219	332	NEGKNLKGSRERNTNYHQRT Q*TPLHK*TRKSRRNG
22758	53126	A	22889	1295	1435	QNQRQKPHDYLNRCRK/W/HFD KIQQPSMLKTLNKL GNDGTYL RIIRDI

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22759	53127	A	22890	2	648	YRFSGPTIRSIQNHTTHNQGRK WHKKGIKKPRAQRYESLKGPE V*PSGQGVTCLLRADWLSPLL SGTY\VGPKFLRNTRFAKKHNK KGLKKMQANN\AKAMSARAE AIKALVKPEVKPKIPKGCS/RR KLRFDFAYIAHPKLWGRRCFVA RFCQGASGCSGPKGKAKVPKA KVKVS/PKAKAKAKAKDQTKA QAAAPAL\PAQAPKRTQAPTK ASE
22760	53128	A	22891	3	370	QMYCVFNERNEDACRY/GS/AIG VLAFLASAFFLVVDAYFPQISN ATDRKYL VIGDLLFSG\VLASLA YQRYKAGVDDFIQNYVDPTPD PNTAYASYPGASVDNYQPPFT QNAETTEGYQPPPVY
22761	53129	A	22892	1	297	
22762	53130	A	22893	3	713	GGGSGDGDMEGAYGAAGA GGSFNLRRLTQPV\VARAVV L\VFALIVFSCIYGEYSNAHES KQMYCVFNERNEDACRYGSA\IG VLAFLA\SAFFLVVDAYFPQISN ATDRKYL\VIGDLLF\SALW\TFL WFR/VGFCFLTQWAVTKPKT VLVGADSVRAAITFSFISFSWG VLASLG\YQRYKAGVDDFIQNY VDPTPDNTAYASYPGASVDN YQPPFTQNAETTEGYQPPV
22763	53131	A	22894	3	219	
22764	53132	A	22895	1445	1777	PVHLGSTCHQCRQKTIDTKTNC RNPRLGA/CRGQFCGPCLQNR YGEEVRDALDPNWHCP\HCR GICNCSFCRQRDGRCATGVLVY LAKYHGFGNVHAYLKSLEQEF EMQA
22765	53133	A	22896	3	337	
22766	53134	A	22897	425	1209	TMSSTQFNKGPSYQLFAEIKNQ LLFKCDPQKQAALCSWIEGLTR LSFSPDFQKSLKEGIVLCTLMN KLGSVPKI/NRLMQNWHQLENL SNFIKAMVGYDMNPMDLFEAN DLFESRNMTQNRIL/P/PLDHSTI SLQMGANKRSSQ/VGMTAPGTP QHIYNTKLGAHKCDNSSMSLH MGDTQSANHSVQGFGLGQQIY YPKYCPQ/GPAASGAPLDAGNC PGPGEAPEDPPCSQEEATTEAPE HAGSLHHRPVVWVGIFLYFRL SFFFL

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22767	53135	A	22898	156	559	QHIRETPGAQVHSCGKWNPQA LWRTAWQLLT/DTKHTLGKPPS /MPHLVIYPLEISC\HTKTCTRML IASFFIITKTWKRPRCPSVDKWK NKPWCIGHTLLSSTVPPGEPGC PIPELSGLLMGLQTTSSRCSVRQ VW
22768	53136	A	22899	161	359	
22769	53137	A	22900	151	383	
22770	53138	A	22901	238	546	PQEHIMEHLEGVINKPRGRRCR PQELQLHYLQKCMDYDGNLL DGFRTLPPQSTHV\HKEEGSEQ APLMSEDEL\INIIDGVLRDDDK NNDGY\IDYAEFAKSLQ
22771	53139	A	22902	1	819	MAAEDKLLLPQLPELFETSKQL LDDVEVVTEPAGSRIVQKKVFK GLDLLEKAAEMLSQL/DLVAEL ELPKTKNSAE\NHTANFSMAYP SLIAMASQRQAKRERHKQKEL EHRLSAIKSAVETGQADDERVR EYYLLHLQSLEEIESIDQEIKILR ERDSSREASTSNSSRQERPPVKP FILTRNMAQVKVFGAGYPSLAT MTVSDWYKQHWKYGALPDQG IAKATPEEFRKAAQQQEGQEEK EEEDDEQTLYRVREWDDWKG HPRDYGSQQSMG
22772	53140	B	22903	238	410	
22773	53141	A	22904	1	638	VAEELPKTKNSAE\NHTANFS MAYPSLIAMASQRQAKRERHK QKELEHRLSAIKSAVETGQADD ERVREYYLLHLQSLEEIESIDQE IKILRERDSSREASTSNSSRQERP PVKPFILTRNMAQVKVFGAGYP SLATMTVSDWYKQHWKYGAL PDQGIKATPEEFRKAAQQQEG QEEKEEDDEQTLYRVREWDD WKGHPRDYGSQQSMG

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22774	53142	A	22905	3	1083	RGNSRLRYSHDELQPLRPEL FÆTGRQLLDEVEVATDPAGFR IVQEK\VFKG\LDLLE\RAAEML SQSTLFGRECRFWKDLSPTHLI TFWGP\AFQGA\PLKQVNPSKR LRILQR\AREHF\NYLTQCHC YHVGQSFEL\PKTMNNSAENH TANSSMAYPMLGAM\ASQRQA KIQRYKQKKELEHRLSAMKSA VESGQADDERVREYYLLHLQR WVDISLEEIESIDQEIKILRERDS SREASTSNSSRQERPPAKPFILT RNMAQAKVFGAGYPSLP/TLW TVSDWYEQHRKYGSITGFRGIA KSAPEGISGKAAQQQEEQEEKE EEDDEPNFHRAREWDDWKD TPSLGAYGNRQNMG
22775	53143	A	22906	30	457	
22776	53144	A	22907	401	1509	MWKMNCSLLQSKQMCNQLPP GSTRDGSWKFRQDPRLGKNA/C DCDSCIASEFGVRGYPTIKLLKG DLAYNYRGPRTKDDIIEFAHRV SGALIRPLPSQQMFEHMQKRHR VFFVYVGESPLKYVTLKEMP AVLVFKDETYFVYDEYEDGDL SSWINRERFQNYLAMDGFLLYE LGDTDLNASSLRERKLILPEDIP LYVGKLVALAVIDEKNTSVEHT SELTVP TVVVLNTSNQQYFLLD RQIKNVEDMVQFINNILDGTVE AQGGDSILQRLKRIVFDAKSTIV SIFKSSPLMGCFGLPLGVISIM CYGIYTADTDGGYIEERYEVSK SENEHQEIEESKEQQEPSSGGS VVPTVQEPKDVLEKKKD
22777	53145	A	22908	53	543	LPISSLRTQTLFSSPLFPQHFEHY LALVSVLPFQLGRGRAPAKKG GEK/RKGHSAIN EVVIEY TINI HKRIHGVRFKKRAPRALREIPK FAIKEVETLSVRIDSRFNKALCA KGIRNVPYRIRVQLSRKRNEDE DSPNKRYTLVTYVPVSTFKNVQ TVHVHEN
22778	53146	A	22909	106	491	IGKGTNELMYGEK/RKGHSAIN EVVIEY TINIHKRIHGVRFKKR APRALREIPKFAIKEVETLSVRI DSRFNKA LCAKGIRNVPYRIRV QLSRKRNEDE DSPNKRYTLVTY VPVSTFKNVQTVHVHEN
22779	53147	A	22910	1	321	

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22780	53148	A	22911	313	402	R*GGEKKKGRSAINEVVTREYT INIHKRIHGVGFKKRAPRALKEI RKFAMKEMGTPDVRIIDTRLNK AVWAKGIRNVPYRIRVRLSRKR NEDEDSPNKLYTLVTYVPVTTF KNLQTVNVN DEN
22781	53149	A	22912	1	3801	
22782	53150	A	22913	2	535	GGGMADTVLFEFLHTEMVAEL WAHDPDPGPGVSAGLRGEEAG ATKGQKMSLSVLEGMGFRVGQ ALGERLPRETLAFREELDVLFK LCKDLWVAVFQKQMDSLRTN HQGTYYVLQDNSFPLLLPMGSG LQV/YLEEAPKFLAFTCGLLRSA LYTLGIESVVTASVAALPVCKF QVVIPKS
22783	53151	A	22914	1	201	GDLPWEINPLSSCSLLHEKDPPT TSGPQT/DQPKKHHTNFKSGP/T GNRTVQLTWQPLPEPLELWPK AL
22784	53152	B	22915	226	522	
22785	53153	C	22916	1	705	
22786	53154	C	22917	1	462	
22787	53155	C	22918	1	505	
22788	53156	B	22919	1	1059	
22789	53157	C	22920	1	411	
22790	53158	A	22921	1	212	LTSFLHCCLSHHYHGAQIHPRH FLHLICRCHCHQYCHHAYLDPC PQDSHHLHWCWQPLPEPLELRP RLSD
22791	53159	B	22922	1	864	
22792	53160	B	22923	1	635	
22793	53161	B	22924	1	874	
22794	53162	A	22925	1	566	MPSVRTGDPIILHAHTLNPAVW LAWAVEGEGSLTLNIWICPWQI EPLRHLAYTPGSDATSLTVPTR VISPLCVDSWLFTDPLMKTHAP ERTFLSFPAACKRQAHLCLVAS NCDKPMYVKLVKAHCAEHQIN LIKGDNDKKLGEWEGPCTIDRE GKPCVVGCSCAVVKDY/GKE SQAQDVIEQYFKCKK
22795	53163	A	22926	59	602	PTAMVEEGIAAGGVMDVNTAV QEVLTALIHDLARGIREAAK ALDKYVYQSQYCGFLQPEQNC HPREEGMEFMVLAQKF*MASV LPET*EK\RAHLCVLASNCDEP MYVKLVEALCAEHQINLIKVD DNKKLGEWVGL\CKIDREGKPR KVVGCSCVVVKDYGKESQAK DVIEEYFKCKK

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22796	53164	C	22927	135	293	
22797	53165	B	22928	20	325	
22798	53166	A	22929	677	1031	TPTMCLRSHPLPLALVSVILSFP QPSFSSSLINSSWSSPRSSLSSSSS RSPSSGRVNLHPPQTPSSH*SHL SSRSCCSAPLLTYHSSSLLLVCS VPFPFFPGFPGENPLFVLGSGAP
22799	53167	A	22930	1	1011	MCLRVIFTIGAVSVILSFLSLFFII LDQLQLVIPQSSLSSSSNLEDPY SESYAAAARRPDSASTEPPAG KSSAEYRAHFLAVSTEAERIRA DLVLRARPLGPAHPRTLWPTTP AGPFCRMVAHNQVA\ADNAVS TAAEPRRRPEP/SPSSSSSPAAT ARPRPCPAV\PAPAPGDTHFRTF RSHADYRRITRASALLDA\LGF YWGPLSVHGA\HEPLRAEPVGT FPVRDS\RQRNCFALSVKMAS GPTSIRVHFQAGRFHLDG\SRES FDCLFELLEHYRGGSRADLLGA TLRQRRVRPLQELCRQRIIRPP VG\REN\LARIPLNPVLRDY\LSS FPFQI
22800	53168	B	22931	180	1466	
22801	53169	A	22932	1	207	
22802	53170	A	22933	408	3758	CLQQGPGGNQHCSHREEAPAV AACQEPPGHSEPVLP LGAPP\ SEEDGRQQVGSSRLRHIMAEMI ATEREYIRCLGYVIDNYFPEME RMDLPQGLRGKHHVIFGNLEK LHDFHQHFRLRELCQHCP VGRSFLRHLIGQKQFPESPSGER PGLTSSHAPCPWMPHYLPEGPA CPVLRIPCEAFNWKHVECTDPV VSPPKQSPLLFQEEQFGMYVIY SKNKPQSDALLSSHGNAFFKVI PLGPPPTACPALS
22803	53171	A	22934	3	355	EAAELDAMCTATRQWSRAGQ GVTGRPCQGR LPRCGLRSTITP KPIPGGHRKKPLL GAL\GKHTLS YVERWHWEGHSGI*TRDRQNF ERRLTVPSPRQPFAPTDETRCG DDRISFCNYV

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22804	53172	A	22935	1928	5312	CLQQGPGGNQHCSHREEAPAV AACQEPPGHSEPEVLPLGAPP\ SEEDGRQQVGSSRLRHIMAEMI ATEREYIRCLGYVIDNYFP RMDLPQGLRGKHHVIFGNLEK LHDFHQHFLRELERCQHCPLA VGRSFLRHLIGQKQFPESPSGER PGLTSSHAPCPWMPHYLPEGPA CPVLRIPCEAFNWKHVECTDPV VSPPKQSPLL FQEEQFGMYVIY SKNKPQSDALLSSHGNAFFKDK QRELGDKMDLAS Y
22805	53173	A	22936	3	306	
22806	53174	A	22937	3	460	LQRQRQH PAAAPVPVRCFTFC FTDIVIMPKRKSPENTEGKDGS KVTKEPTRRSARLSAKPAPPK PEPKPRKTS AKKEPGAKISRG KKGKEEKQEAGKEGTAPSENG ETKAEIHRSTVNVSTSRGTP PSTLSVKGQIETVRVKGTEN
22807	53175	A	22938	3	285	SSCPAREQLQRQRQH PAAAPV PVRCTFCFTDIVIMPKRKSPEN TEGKDGS KVTKEPTRRSARLS /AVFV*FKLSLQKPAPPKPEPKP RK TSA
22808	53176	A	22939	1	413	
22809	53177	A	22940	2	454	AEVQVEEAGLRRALRVSSCSGR GSIQRRFYAVPVRCTFCFTDIV IMPKRKSPENTEGIDGSKVTKE EPTRRSARLSAKPAPPNPEPQPR KTS AKKEPGAKISRGAKGKKE EKQEAGK\EGTAPAENDET KAE EAQKTESVDNEGRMNCP
22810	53178	B	22941	55	186	
22811	53179	A	22942	2	397	
22812	53180	B	22943	339	470	
22813	53181	A	22944	1	139	
22814	53182	A	22945	1	416	MPLLYHLSRCAYVQQCNFANP VVSALCTCLVKPVVEKCTPYA VLLEALALRNVRQLEDLVIEAV YADVLRGSM DQRNQRLEVDYS IGRDIQRQDL SAIARTLQEWG/C HQLLSLRSAASQRQCGYHK LHDKQRLLRG
22815	53183	A	22946	315	570	

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22816	53184	A	22947	933	1841	RPAEPDPGSGHPEPKSPTLSAV MSAEVKVTGRNQEQFLLAKS A\KGAVLATLIHQVLE\APGVY VFGELLDMPNVRELAESDFAST FRLLTVFAYGTYADYLA EARN LPPLTEA\QKNKLSDTFSV\TL AAKVKCIPYAVLLEALALR\NV RQLEDLVIEAVYADVLRGSLDQ RNKRL\EV\DYSIGRDIQRQDLS AIARTLQEWCVGCEVVLSGIEE QVSRANQHKEQQL\GLKHQIES EVANLKKTIKVTTAAA\AAATS QDPEQHLTELREPAPG\TNQRQ P\SKKASKGKGLRGS AKI W\SKS
22817	53185	A	22948	1	1319	
22818	53186	A	22949	365	1331	RAGGGAPWRFTGT FATVAPET AADLSLHRHLLSRTTSAWGTA CITVPIEPPTWPTWAVPIQWGG SATCIQEDKLRQGILYGYSQQV NQAMDSGLRP\VVDSVN AIRVP QDYVTQSVPLREMNGSLGVLA QQLQNAKLQADAAHSALKQSD DLKPVFDQAFTKVVTTPADAL QPLIPAAQTFTQQLVMVG DYIA QQGTQECGKTFSRASYLVQHS RIHIGKKPYECKECKGAFSSGS YLVQHQRHTGEKPYECNKCG KAFTVYQGQLIGHQSVHTGEKPF ECKECKGAFRLNSFLTEHQRVH TGEKPFKCKKCGKTF RYSSAP
22819	53187	A	22950	2	206	GGGQGATSFGRPESGFIRHQPPP PCRRSSTPTRSKLYTL\SAPE*RS VPTSAPGPQDRPPGSVSKKSW
22820	53188	A	22951	571	1102	MGSVSLGNPQGPQFTR LPLAN VIHPTFFWETGPRGADSLGAKG RKWQPTFTSRCNLKVYLGRAG SQAATGGPSPSLPNLHVKKLRP RKAEA WPGRRNTGKVSGR/LA ALRAPYGESFARAAGPRDAPS/ QQPRPQPEHAPTLISLGSNFGG MVEESWCRMNPD SGRPKEVAP WPP PSTK
22821	53189	A	22952	1	591	MGP HWKDFKEIDVKKYIDALSI HTYTHTHTHHADITDGDHGG GALLELEINSHLKVQFRELNITA AKETEDGGGGKAIIFVPPQLK SFQKIQVWLRRILPKPTRK SCT\ QNMHWPPRSRTLKAMRDSIPE DLVF\PSEIMCMRIHV KLDGSRL IKAHLDKAQQYHVERNAETFS GVYMKLTGKDINVEFPEFQL

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22822	53190	A	22953	2	508	APPFELPRAAGIRHEGKFSQEK AMFSSSAKIVKPNGEKPDEFES GISQALLELEMNSDLKAQLREL NITAAKEIEVGGGRKAIIFVPVP QLKSFQKIQVRLVRELEKKFSG KHVVFIHRRILPKPTRKSRTK NKQK\RP RSRTLTA VHDAIPEDL VFPSEIVGKRNR
22823	53191	A	22954	145	395	
22824	53192	A	22955	536	717	
22825	53193	A	22956	1	729	
22826	53194	A	22957	1	1158	
22827	53195	A	22958	1	2869	MAHLRSCCSSLYQPGHLLPPHN PIQDHPLTAPSLTHLTRRAYFTD EKTGGQSAYAVSLLRECVKL RPSDPTVPLMAAKVCIGSLRW MAAKHLAGVLLHSLSEECYWS PLSHPLPEFMGKEESSFATQAL RKPHLYEGDNLYCPKDNIIEAL LLLLISESMLANKLLLEMERV QSPGVESGVDRQLSPYSDTNVN AQNAQIVPVAAKSAQNEVPGY PEETEKSRVQSNLLTQFQDLRL LLAAPECLPPRMSPPS
22828	53196	B	22959	28	139	
22829	53197	A	22960	60	812	LASFPVPLHRCSAGSQPPGPVP EGLIRIYSMRFCPYSHRTRLVLK AKDIRHEVVNINLRNKPEWYY TKHPFG\HIPVLKTSKCQLIYES VIACEYLDDAYP\GRKLFPYDP YERVRQKMLLELFGKVPHLPK EFPGSVEDVGENAPNLKAALR\ QEFSNLEEILEYQNTTFFG\GTCT SMIDYLPL/WPWFER\LECMGY WNCVSHTPALRLWISAMKWD PTVC\ALLMDKEHF\QGFLNPYF QNNPNAFDGLC
22830	53198	A	22961	2	251	ILLDFKPWDDTDMAQLEACV CSIQLEELV*GASKLVPMGYGI RKLQIQCVVEDDKVGTDLLEEI TKFEEHVQSVDI AAFNKI

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22831	53199	A	22962	353	1071	APLWPRAERKFYKQMNPGVAS ASRQSSAPG/NDHSELVLQIASL EVENQSLRGVVQELQQAVSNL EAWLN\NIRREKSSPGH/RSTVP QTQHVSPMRQVERPSRPPYYD PGQEAEDNEDDDIDLDNKEED KEARRLREERLRLYAKKAKNP SLVAKSSILLDIKPWDNKTDMT QLEACVRSIQLDGLVSGASKLA SVGYGIRKMQIQCVVEDDKVG TDLLEEITKFEEHVQSVDAIAL
22832	53200	A	22963	3	482	PWANEAPAKK/PATPAEG/DAR DDIDLF\GSDNEEVEDKQAGHS CGEER\LR\HYAGEEGPRKPAL/ VWPKSLPSLLDVK\PWDDDDGP WPSLEACVR\SIQLDGLVWGGF PSLVPVG\YGIRK\LQIQCV\VED DKVGTDFPWRREIT\KFEEARA RSVDIASFSTRS
22833	53201	A	22964	1	2835	
22834	53202	B	22965	571	1337	
22835	53203	A	22966	1	489	
22836	53204	A	22967	1	618	
22837	53205	A	22968	3	5227	SWSRVPRTRPEGLRQLKMRT GWATPRRPAGLLMLLFWFFDL AEPSGRAVN\DPLTIFHGNTGKC IKPGYGWIVADHCDATEDKLW KWVPQHRLFHLHSQKCLGLDIT KSVNELRMFSCDSSAMLWWKC EHHSLYGAARYRLALKDGHGT AISNASDVWKKGGSEESLCDQP YHEIYTRDGNSYGRPCFPFLID GTWHHDCILDEDHNGPWCATT LNYEYDRKWGICLKPENGCED NWEKNEQFGRCYQFNTQT
22838	53206	A	22969	3	453	GQSPILVIYHETKRPSGISERFSG STSGNTATLTITGTQAMDEADY YCQAGRDFGGGTKLTVLGQPK AAPSVTLPSPSEELQANKATL VCLISDFYPGAVTVAWKAHSN PVKAGVETTPSKQSNNKYAA SSYLSLTPEQ*KSHRSYSC
22839	53207	A	22970	2	354	
22840	53208	A	22971	1	315	

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22841	53209	A	22972	1	712	MAWTLFLTLTQGTGSWAQS ALTQPASVSGSPGQSITISCIGTS SDIGAYYFVSWYQQYPGKAPK LLIFDVSGRPSGISSRFSGSKSGN TASLTISGLQAEDEADYYCASY ARSSTVVFGGTSVTVLGQPKA APSVTLAFPPSSEELQANKATLV CLISDFYPGAVKVAWKADGSP VNAGVETTTPSKQSNKYAAS SYYLSLTPEQWKSHRSYSCQV THEGSTVEKTVAPTECS
22842	53210	A	22973	1	1779	
22843	53211	A	22975	1	2001	
22844	53212	A	22976	292	1497	TGQLNGFHEAFIEEGTFLFTSES VGEGHP\DK\CDQIS\DAVLDA HLQQDPDAKVA\CETVAKTGMI LL\AGEITSRAAV\DLPRKVRE SCLNTLEYDDSSKGF*LQRLVN VLVALEQQSPDIAQGVHLDRNE EDIGAGDQGLMFGYATDETEE CMPLTIVLAHKLNKLAELRRN GTLPWLRPDSKTQVTVQYMQD RGAVLPIRVHTIVISVQHDEEVC LDEMARDALKEKVIKAVVPAKY LDEDTIYHLQPSG/RTFVIGGPQ GDAGLT\GRKI\VDTYGGWGA HGG\GAFSGKDYTKVDRSAAY AARWVAKSLVKGGLCRRVLV QVSYAIGVSHPLSISIFHYGTSQ KSERELL*IVKKNFDLRPGVIVR DLDLKKPIYQRTAAYGHFGRDS FPWEVPKKLIY

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22845	53213	A	22977	67	1579	FFVRSLSHTDTNMNGQLNGFH EALIEEGTFLFTSKADGEGHPD KICDQISEAVLDAHLHQDPDAK VACETVAKTGMILLAGEITSRA AVDYQKVVREAVKHIGYDDSS KGFD\YKTCNVLVALEQQSPDI AQGVHLDRNEEDIGAGDQGLM FGYATDETEECMPLTIVLAHKL NAKLAELRRNGTLPWLRPDSK TQVTVQYMQDRGAVLPIRVHTI VISVQHDEEVCLDEMRLALKE KVIKAVVPAKYLDEDTIYHLQP SG\RFVIGGPQGDAGLTGRIIIVD PYDCWGAHEEGAFSGKDYTKV \SRSAAYGARWVARSLVKGGL CRRVLVQVP GPPKKPDEDLYLE CEPDPVLALTQTLSFQVLMPSG PLPRTSVVPREQQMLPLKDSDL LTQPWYSGNCDRYAVESALLH LQKDGA YTVRPSSGPHGSQPFT LAVLLRGRVFNIPRRLDGGRH YALGREGRNREELFSSVAAMV QHFMWHLPLLVDRHSGSRELT
22846	53214	A	22978	3	325	
22847	53215	A	22979	15	1014	
22848	53216	A	22980	7	592	LLCSGRHSLQGVMGILSFLPVL ATESDWADCKSPQPWGHMLL WTAVLSLAPVAGTPAAPKAV LKLEPQWINVLQEDSVTLTCRG THSPESDSIQWFHNGNLIPHTQ PSYRFKANNNDSGEYTCQTGQ TSLSDPVHLTVLSGQWRKAPG WTWEGQDG*NLLSGRGLQERG VACLLGSI AVSCLSTYQWLFLP
22849	53217	A	22981	32	1150	EKAVTAVLWAPARLQGVMGIL SFLPVLATESDWADCKSPQPW GHMLLWTAVLFLAPVAGTPA APPKAVLKL\EPQW\INGGSRED SVTL\TC\RGTHSPESDSIQWFH NG\NL\IPHTTQPSLQVSRANNN\ DSGE\YTCQTGQTSLSDPVHL\T VLSEWLVLQTPHLEFQEGET\IV LRCHS\WRDKP\LVKVTF\HNG KSKKFSRSDPNFSIPQANHSHSG DYH\CTG\NIG\YTLLFIPRLLTIT VQAPSSSPMGIIIVAVVTGTAVA AIVAAVVALIYCRKKRISANPT NPDEADKVGAE\NTITYFTSQW HPGWLWEEPDDQNRILVSIVLA LGIWRRNSEREDLVFPGLKFPL GEDTGRCCQFPKEKVFLPGVIL

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22850	53218	A	22982	1	471	MKSSFQGHNKEKREKKGPSLFS AAYGGGSCLLLSIMAALRPLVK PKIVKKRTKEFIWHQSDQHVKI KCNWRKPRG\QILMPNTGHGSN /KKTkHMLPSGFRKFLVPSVKE LEVLMCNKSPCAEIAHSVSSK\N KTIVERAAQ/LAVRVTPNPANL RSEENE
22851	53219	A	22983	103	564	GIFRGIMAALRPLVKPKIVKKR TKKFIRHQSDRYVVKIKRNWRKP RGIDNRVRRRFKGQ\MLMPNIGY G\SNKKTK\HMLPKWLSGKFLG SHQRSREL/EKLLA*CCNKFFTC CPRFVSHCFSFQGTGKGLRGER SLPNWAFRVTPNPANLRSSENE
22852	53220	A	22984	3	177	
22853	53221	A	22985	74	735	RFAGAGAIPEARARPPDVQAAE EEKEMDLPDSASRVF/CGDASS NMGEHRMNVNAIILAQKNML D\RFECTNEMLLNFNNLSSARL ASRLSERFLHHTRTLVEMKRDL DSIFRRIRTLKGKLARQHPEAF SHIPEASFLEEED\EDPIPTQAPT TTIATSE\QSTG\SC\DTSPDTVAS PSLEPLASEDLSHVQALASPAI NGPQPDQIDEEMTGRIALPARC
22854	53222	A	22986	3	275	MRTVAEKVDAVRIVHIHSVINL RRSDKRKDRVEISPEQLSAAST EAERLAELTGRPMRVVGWYHS HPHITVWPSHVGVKYGVMAMFI VFRN
22855	53223	A	22987	1	886	AKMAVQVVQAVQAVHLESDA FLVCLNHALSTEKEEVMGLCIG ELNDDTRSDSKFAYTGTEMRT VAEKVDAVRIVHIHSVILRRSD KRKDRVEISPEQLSAASTEER LAELTGRPMRVVGWYHSHPHI TVWPSHVDVRTQAMYQMMDQ GFVGLIFSCFIEDKNTKTGRVLY TCFQSIQAQKSSEYERIEIPNIHIV PHVTIGKVCLESARELPKILCP/ QEEQDAYRRIHSLTHLDSVTKI HNGSVFTKNLCSQMSAVSGPLL QWLEDRLEQNQQHLQELAHQE KEELMQELSSLE

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22856	53224	A	22988	10	988	LKAMSWAKMAVQVVQAVQA VHLESDAFLVCLNHALSTEKEE VMGLCIGELNDDTSRSDSKFAY TGTEMRTVAEKVDAVRJVHIHS VH\RRSDKRKDQVEISPGQLSA ASTEAEKLAELTGHPMRVVGW YHSHPHITVWPSHVDVRTQAM YQMMDQGFVGLIFSCFIEDKNT RAGRVLYTCFQSIQAQKSSESL HGPQDFWSSSQHISIEGQKEEER YERIEPIHIVPHVTIGKACLESA VELPKILCQEEQDAYWRIHSLT HLDSVTKIHNQSVFTKNLCSQM SAVSGPLLQWLEDRLEQNQQH LQELQQEKEELMQELSSLE
22857	53225	A	22989	1	1362	
22858	53226	A	22990	284	542	KLFQKKNKKSSCISDNFFLLAI MVNLLQIVRDHW\HVVLVPM GFVIGCYLDRKSDERLTAFRNK SMLFKSFPHRELQPSEEVTKW
22859	53227	A	22991	272	1241	FPGGAACDICWVKEENGSLMS MKMGWKAKSCLPVTVHPRCL TPYSARLSSTFPL*NSITGP*QS PACKRPF*LTTC*GGSRRNSNR KAA*GPCSPPPSPPPSPATLPR GPAGLQPPGVPVLPPLRPRKHY APGGLP\PPASLLEDDDDTFCTS QAMQPTAPTCLSPALLPEKDS FSSALDEIEELCPTSTSTEAATA ATDSVKGTSSEAGTQKLDGPQE SRADDSKLMDSLPGNFEITTST GFLTDLTLDDILFADIDTSMYDF DPCTSSSGTASKMAPVSADDLL KTLAPYSSQPVTSPQPFKMDLT ELDHIMEVLVGS
22860	53228	A	22992	1	3234	MELKCVCLKNRSPSAEEQPSLL PEPSAQESHGGHPRSALYGRER LTGQPPSSPHNPAPWASCPAVI DPVPIYSSVAEAYDSGTEGIPTV PGLR\HVESGSLRATAQRLPPER RV/QQRTTAPPPRQPPRRPLRAS LSAAPPEPREPVVAAGPEPGSL QRPARTALPNRPEPQAASPGTL VEKYAAPVATQDLLDENPCTS RLGVVDLQAVLTLRKLENLRS GAQTPLEGGQSGRVGPHALRW NRGEEGERLLC
22861	53229	A	22993	307	1906	
22862	53230	A	22994	1	1752	
22863	53231	A	22995	588	704	

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22864	53232	A	22996	3219	3407	DQVVWTKRLQDAILVLV*EFRL HSPALRLCVMKQVGMSQGELE WGQFLKLSSRNKRKRSGERI
22865	53233	A	22997	1	588	
22866	53234	A	22998	1	917	
22867	53235	A	22999	1	1692	
22868	53236	A	23000	1	2266	MKRIRDYYERSHANNLDNLEE MDELLETHNLPGLNHEETENLN KPITTSLSPLAGVSSTKKNTKNE LSIVLPFTGSILPVGFATRPRGL ASSNPILLHMVAFLFANGTEEL PVPLMTPTRQKKVIPLIPLMVG LGVSASTIALGTGITGSTSVTTF RSLSNDFSASITDISQTL SVLQA LVDSSAAVVLQGQLRGLDLLT AEKGGLCIFLNEECFYLNQSG LVYDNIKKLDRAQKLANQAR QNLDSMLHGTGMKSDSDQKKS ENGVT LAPEDTLPFLKCYCSGH CPDDAINNTCITNGHCFAIIEED DQGETTLASGCMKYEGSDFQC KDSPKAHVRRRTIECCRTNLCNQ YLQPTLPPVVIGPFDGSIRWL LLISMAVCIIA\MISSSCFCYKH YCKSISSRRRYNRDLEQDEAFIP VGESLKDLDIQSQSSGSGSGLPL LVQRTIAKQIQMVRQVGKGRY GEVWMGKWRGEKVAVKVFFT TEEASWFRETEIYQTVLMRHN ILGFIAADIKGTGSWTQLYLITD YHENGSLYDFLKCATLDTRALL KLAYSAAACGLCHLHTEIYGTQG KPAIAHRDLKSKNILIKKNGSCC IADLGLAVKFN\SDTNEVDVPL NTRVGTK\RYMAPEVLDESLNK NHFQPYIMADIYSFGLIIEWEMA RRCITGGIVEEYQLPYYNMVP DPSYEDMREVVVCVKRLRPVSN
22869	53237	A	23001	68	636	GVTSNPKALLGALIAPAFASLPE GRGKRIQALNMFRPKNSWRLG LKYPSSKEKTQVPKTLISGLPE RKSTTRVGEKLQSAHKMPLSPG LLLLLFSGATATA/APLPLEGGP TG\RDSEHMQEAA GIRKSSLLTF LAWWFEWTS\QASAGPLIGKEA REVARRQEGAPP\QASARRDRM PCRNFFWKTFSCK
22870	53238	A	23002	1	144	GIRLPSSADWQKTEAQKRREQL \LLDELVALVNKRDA\VRDLDA QEKQ

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22871	53239	A	23003	2	667	RWNSSDPDADRTTLNHADHSS KIVQHRLLSRQEELKERARVLL EQARRDAALKAGNKHNTNTAT PFCNRQLSDQQDEERRRQLRER ARQLIAEARSQVVKMSELPP\YG EMAAEKLKERSKASGEQNSKL VDLKLKKLLEVQPQVANSPPSSA AQKAVTESSEQDMKSGTEDLR TERLQKTTERFRNPVVFSSKDST VRKTQLQSFSQYIENRPEMKRQ RSIQED
22872	53240	A	23004	1	1437	
22873	53241	A	23005	1	2009	MAKPPLYKKYGNQQGVAAIPD VPAAWEAEPSPISPVLRKPN ASQSLLVWCKEVTKNYRGVKI TNFTTSWRNGLSFCAILHFRP DLIDYKSLNPQDIKENNKKAYD GFASIGISRLLEPSDMVLLAIPD KLTVMTYLYQIRAHFSGQELN VVQIEENSSKSTYKVGNYETDT NSSVDQEKFYAELSDLKREPEL QQPISGAVDFLSQDDSVFVND GVGESESEHQTPDDHLSPTAS PYCRRTKSDTEPQKSQSSGRT SGSDDPGICSNTDSTQAQVLLG KKRLLKAETLELSDLYVSDKK KDMSPPFICEETDEQKLQTLDIG SNLEKEKLENSRSLECRSDPESP IKKTSLSPTSKLGYSYSRDLDLA KKKHASLRQTESDPDADRTTL NHADHSSKIVQQDEERRRQLR ERARQLIAEARSQVVKMSELPSY GEMAAEKLKERSKASGDENDN IEIDTNEEIPGFFVGGGDELTN LENDLDTPEQNSKLVDLKLKKL LEVQPQVANSPPSSAAQKAVTES SEQDMKSGTEDLRTERLQKTTE RFRNPVVFSSKDSTVRKTQLQSF SQYIENRPEMKRQRSIQEDTKK GNEEKAAITETQRKPSEDEKGF KDTSQYVVGELAALENEQKQI DTRAALVEKRLRYLMDTGQNL

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22874	53242	A	23006	145	3217	LDEYEARLTLANLDDFEEDNED DDENRVNQEEKA AKITELINKL NFLDEAEKDLATVNSNPFDDPD AAELNPFDPDSEEPITETASPR\K TEDSFYNNSYNPFKE\VQTPQ YLNPFDEPEAFVTIKDSPQSTK RKNIRPVDMSKYLADSSKTEE EELDESNPFYEPKSTPPNNLVN PVQELETERRVKRKAPAPPVLS PKTGVLNENTVSAGKDLSTSPK PSPISPVLGRKPNASQSLLVWC KEVTKNYR
22875	53243	A	23007	1	165	RPAAPRHERRPAADHGHHRPEP GRGTGQKACSELPSEACSGIA IG*SLLCACSRSRKRQW
22876	53244	B	23008	26	625	
22877	53245	A	23009	325	526	
22878	53246	A	23010	1946	2224	LLQWRHGLLNPNINSPIPV QKPKDPYRLVQHLCLIQIVLPI HPMVPNPYTLSSIPFTTHYSVL DLKHAFFTIPLYPSSQPLFAFTW TDPDTHQAQQITLAVLPQC FIDS PHYFSQAQISSSVTYLGIILMK THIGLGAVEQGVVLVGEARAA QEPMEWVGSGMVGCRSRALP RGKAAKARREIERSAVTIVPVL DFNPAFHIPDTTPDHHDCISLIH LTFTPFPHISFFPVPHLEHTWFID GSSTR
22879	53247	A	23011	1	1479	MEENFIRVFFTTTTMLLLIALIK QGELCESFDGKSLDGRDERVVI CFDAAAGLHRAC SIRGEQQNL GTHYFTWQRLFAEVIKLGGLM KPKARNASSLWKEKTKNGFFS LETPEERQTSDLHKYQLAFRLF FIKYKNPAQFMAHLATTLRHFT ALDPESHNFQNL FSSSHLMHIL SAPRLRLYSRFVESPTVTIVPG PDFNPASNIIPDTTPDPHDCISLI HLAFTFPYISFFPVPHPDHTWF IDGSSTRPNCHTPAKAGYAIVSS TSIEATALPPSTTSRQAELIALT QALTLAKGLRINIYTD/SHILHH HAYLWA/E/RGFLTMQGSSIINA SLIKTLLQAALLPKEAEVIHCKG HQAASDPITQGNAYADKVPSL AHAPTLTLAPVLQCPLREVAGT EDDNGKAVLEIPSNIRKSAHVP VQTWKGWDPTNLLGGWFSNL GGFKTLVGTVIFIIGFLLFLPCVI PRIIKAIKTLVETT VSRQIIQTILL

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22880	53248	A	23012	854	1777	
22881	53249	A	23013	27	496	
22882	53250	A	23014	117	210	
22883	53251	A	23015	124	414	
22884	53252	A	23016	3	627	
22885	53253	A	23017	1	567	
22886	53254	A	23018	44	551	GGGRRSAPLQLGFMSRQAKDD FLRHYTVSDPRTHPKGYTEYKV TAQFISKKDPEDVKEVVWKR YSD\FRK\LHGD\LAYTHRNLF\R RLEEFPAFP\RAQ\VFGRF\EASV DSRER\RKGAEDLLRFTVHIPAL NNSPQLKEFFRGGEVTRP\LEVS RDLHILPPPLIPTPPPG
22887	53255	A	23019	25	488	
22888	53256	C	23020	9	119	
22889	53257	A	23021	52	241	
22890	53258	B	23022	4	402	
22891	53259	A	23023	249	984	GSTMYKMNICNKPSNKTAPEK SVWTAPAQSPGSPQLQGQSR RNGWSWPPHPLQIVAWLLYLF FAVIGFGILVPLPHHWVPAGY AVSLGKRRAGPWNPFSLVSAET ILPQCMGAIFAGHLVVHLTAVS IDPADANVRDKSYAGPLPIFNR SQHAHVIEDLHCNLCNVDVSA RSKHCSACNKCVCDFDHHCKW LNNCVGERNYRFLHSVASALL GVLLL/LGGHICLRGVLCQPH ASAHQPTL
22892	53260	A	23024	2	224	
22893	53261	A	23025	111	1368	QQPSGSGALARGSGLPPRPGR PARSPVQKRKGWPKGKRN PRDLAV\RVPTTGYMIFLNEQRS QLRATHPDLPFTEIMKMLAVQ WAQLSQDKKGRKYAGKALGV TPPPSALTPVALIEPKQLDIQSL PFQPILDRKIKDKRQLVPSYLG GMHTVTEGLAGRQVLLQQVQ GGAWESAFLTCPWAMAAAP GPTLTMLQPSISAVGFSQMAMG PHVQGRASKLSIYVNPRLST TTAMGDELNDLYCGTSRQLFSS LCNKKEPAAKAAPALSSPGP PALGHAGHGRQLLLERSLTLFH LYELLYPRASPGLWPPRVWM PHSLTCGTFWVPMIMMRFAH VASGLLRPPFNQVFAHLSPAQG RHPGENGIIVLTSRAAVRIRCSS CSRSLTGNLKKILPRTQSTWSL WRKRRDK

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22894	53262	A	23026	2	405	
22895	53263	A	23027	1	391	
22896	53264	A	23028	3	463	
22897	53265	A	23029	74	466	FAFNMPEPAKSAPAPKKGSKK AVTKAQKKDGGKKRKRSRKESY SVYVYKVLKQVHPDTGISSKA MGIMNSFVNDIFERIAGEASRL AHYNKRSTITSREIQTAVRLLLP G\EL\AKHAVSEGTK\AVTKYHQ
22898	53266	A	23030	168	597	KEETDFLFWFCHYCFIMPELAK SAPAPKKGSKKAVTKAQKKDG KKRKRSRKESYSVYVYKVLKQ VH\PDGTGISSKAMGIMNSFVTTT FE\RIAGEASRLAHYNKRSTITS REIQTAVRLLLPGELAKHA\VSE GTNA\VTKYTSSK
22899	53267	A	23031	18	321	FTATWLNQEVGIVGKYRTRYG VSLQKMVKKIEISQYAKYICSFL WQNSKMKRRAVGIWCCG/SCM KTVKVSSSRNHIVWTYNTTSAV TVKSTIRRLKQLKDQ
22900	53268	A	23032	12	445	FTCRSHVSEVEERCVEAPGLLG SRSITGFSLSKQAKRTKKVGIV \GKYGNPLWGPSLR\KMKVKK\IE ISQHAQVHFALFCGKTKMKRR AVGIWHCGSCMKTV\AGGAWT \YNTTSAVTVKS AIRRLKEFERP SRTLLYSLRTSLGL
22901	53269	A	23033	3	175	
22902	53270	C	23034	378	434	
22903	53271	A	23035	1	578	MVRCVRLVEAGSVVRYLSTSIC RPVVDAGSRALCLQEWADSQQ VKEKQYSSRDVQRAAALNIYRI PPSSRKPALCPTPRDRLEYDEDR LEHIAYVRARELHTLEVTGLET VAQSKAHVASLEGLIPEDKVVL LAGSPLQNEATLGQCGVEALTT LEVVGRRLGASL/HTSASKHTM VRALTYCSSREETFTAI
22904	53272	C	23037	236	379	
22905	53273	A	23038	178	534	VVQKTEPRLCFAVSPPFSCSLPL PSLFPHSPLLGRPKRQAKPAAD EGFWDCSVCTFRNSAEAFKCSI CDVRKGTSTRYLKICVTWVVV VI*QVFIEHTAICALGVQWYKD RPGPCSYGA

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22906	53274	A	23039	44	1012	VGGGGVQPSMTMGDKKSPTRP KRQAKPAADEGFWDSCVCTFR NSAEAFKCSICD\VRKGTSTRKP RINSQLVAQQVAQQYATPPPK KEKKEKVEKAGQKRKPEKRPR KFSP/SVVTKKNTNKKTKPKSD\ ILKDPPS\EANSIQSANATTKTSE TNHT\SRPRLEKRGTTGGIAQQFG QLTVG\NVTVIITDFK\EKTRSSS\ TSSSTVTS\SAGS\EQQNQRQLR GFRGATDKGSLPVPNPNGRPC QAVNDESFLKLAHGNCGLWN SGVWKFQNLPPAHACLHPWEN LSCGTSTSLVDCCQDNFLLCHG HSWPPrDFRHPDDYSGHF
22907	53275	A	23040	1	626	MAGCRNPCKAESHRSKSLSEA ESLFREAESQHDRGSKNAGHR DESVEVWLSLLSSSQTRAEIER QSRGKQWLRHLLRDTEGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRIAKLRV SADSFVRQQAHAHAKPDNLTL EINPSGTFLTQALNHTYK/LRTN LQPSESTQSQDF
22908	53276	A	23041	1	951	MDAAEVEFLAEKELVTIIPNFSL DKIYLIGTWELKYREIRWLSQG PHGKPHADPGSSILQNSSGPSG VRTNGKSKPWEPFVAEEFAHQ FHESVLQSTQKALQKHKSVA VLSAEQNHKVDTSVHYNIPELQ SSSRAPPQHNGQQEPPTARKG PPTQELDRDSEGEQEEDEEDGE DEEEVPKRKWQGIEAVFEAYQ EHIEERTLERNRSSTAADKAQL LAANRQGHGQPTDPASDNIPKA DEIRTLVKDMWDTRIAKLRVS ADSF\VRQQAHAHAKL\DNLTLM EIHTSG\TFLTQALNHMYKLRT NLQPLESTQSQDF
22909	53277	A	23042	1	626	MAGCRNPCKAESHRSKSLSEA ESLFREAESQHDRGSKNAGHR DESVEVWLSLLSSSQTRAEIER QSRGKQWLRHLLRDTEGPKET VRPELATRAAMDVAEVEFLAE KELVTIIPNFSLDKSYLIGVDNIP KADEIRTLVKDIWDTRIAKLRV SADSFVRQQAHAHAKPDNLTL EINPSGTFLTQALNHTYK/LRTN LQPSESTQSQDF

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22910	53278	A	23043	2	642	RPRRLLRDAEGPEETVRLWPAA RAAMDAAEVEFLAEKELVTIIP NFSLDKIYLLIGDGLGPFNPGLPV EVPLWLAINLKQRQKCRLLPPE WMDVEKLEKMRDHE\RKEETF TPMPKPFTTLELT\KLLLNHASD NIPKQDEIRTLVKDMWDTRIAK LRVSADSF\VRQQEAHAKL\DN LT\LMEIHTSG\TFLTQALNHMY KLRTNLQPLESTQSQDF
22911	53279	A	23044	3	1038	TSSMAAGCSEAPRPAAG\SDGS LVGQAGVLPCLLEPTYAAACA LVNSRYSCLVAGPHQRHIALSP RYLNRKRTGIREQLDAELLRYS ESLLGVPIAYDNKVVGELGDIY DDQGHIHLNIEADVFVFCPEPGQ KLMGIVNKVSSSHIGCLVHGCF NASIPKPE\QLSAEQWQTMEIN MGDELEFEVFRLDSDAAGVFCI RGKLNITSLQFKRSEVSEEV TEN GTEEA AKKPKKKKKKKDPETY EVDSGTTKLADDADDTPEES ALQNTNNANGIWEEEPKKKKK KKKH\QEVSR TQDPCFSQGLT SSGYQSDHKKKKKKRKHSEEA EFTPPLKCSPKRKGKSNFL
22912	53280	B	23045	82	323	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22913	53281	A	23046	3	1624	QLEIRAPTADEIHVTVGARNLI PMDPNGLSDPYVKLLKLPDRN LTKQKTRTVKATLNPVWNETF VFNLKPGDVERRLSVEVWDWD RTSRNDFMGAMSFGVSELLKA PVDGWYKLLNQEEGEYYNPV ADADNCSLLQKFEACNYPLEL YERVRMGPSSSIPSPSPPTDPK RCFFGASPGRLHISDFSFLMVLG KGSFGKVMLAERRGSDELYAI KILKKDVIVQDDVDCTLVEKR VLALGGRPGGPRPHFLTQLHST FQTPDRLYFVMEYVTGGDLMY HIQQLGKFKEPHAAFYAAEIAI GLFFLHNQGIHYRDLKLDNVML DAEGHIKITDFGMCKENVFPGT TTRTFCGTPDYIAPEIIAYQPYG KSVDWWSFGVLLYEMLAGQPP FDGEDEEELFQAIMEQTVTYPK SLSREAVAICKGFLTKHPGEAP GASGP*WGNLTIRAHGFFPLGF DWERLERLEIPASFSPRPRCGRS GENFDKFFTRAAPALTPPDRLV LASIDQADFQGFTYVNPDFVHP DARSPTSPVPVPVM
22914	53282	A	23047	1	1522	MLRAPRQATRDHHFAHIDIVQV TCFRYLRRSALAPAMPSPVR VDRGSFPPVAGGNHTRRRGGTP QEGVTREALAFFDVVATTGAE MMWSNFFLQEENRRRGAAGRR RAHGQGRSGLTPEREGKVCLA LLLAAWAPRWCCPWAPSSG WTQHLQGQRQRRVRSRGPTWG CGRRAPSGCGRRTCPWTGTPA APRSCPEASERNSEHPALICTLP QPHMLKRRARRAPGSMAPPLP RPPQAASVPVFPDWEPLSRA RSKSPLHSQHRPAQETGRHSRP RTSTRKRQKHSSTEKATHTPER APKPQTRENNPKGRAQGSAPR DHNPA SRHQKTSNDKRSTHDT HKTRKDSQTRKKTRNNEKQQ PDR/IGPQIIAYQP/YGKSVDWW SFGVLLYE/MLAGQPP/FDGEDE EELFQAIMEQ/TVTYPKSLSREA VAIC/KGCGRSGENFDK/FFTRA APALTPPDRLV/LASIDQADFQG FTYVNP/DFVHPDARSPTSPVPV PASSPTRPQLLENKFGC

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22915	53283	A	23048	505	2345	SIWGMVMMNPTSSITLRRMM SLFPASLTTKYGGFYINSGTLQF RQASEDDFIKEKKKKSPKKR KLKEGGEKIKKKKDDTYDKE KKS KSKFSKAGFTALNASKEK KKKKYSGALSVKEMLKKFQKE KEAQKKREEEHKPVAVPSAEA QGLRELEGASDPLLSLFGSTSD NDLLQAATAMDSLTDLDLEHL LSESPGSPFRDMDDGSDSLGV GLDQEFRQPSSLPEGLPAPLEKR VKELAQAARAAEGESRQKFFT QDINGILLDIEAQTRELSQVRS GVYAYLASFLPCSKDALLKRA RKLHLYEQGGRLKEPLQKLKE AIGRAMPEQMAKYQDECQAHT QAKVAKMLEEEKDKEQRDRIC SDEEEDEEKGGRIMGPRKKFQ WNDEIRELLCQVVKIKLESQDL ERNNKAQAWEDCVKGFLDAE VKPLWPRGWMQARTLFKESRR GHGHLTSILAKKKVMAPSKIKV KESSTKPKKKVSVPSGQIGGPIA LPSDHQTGGLSIGASSRELPSQA SGGLANPPPVNLEDSDLDEDLIR NPASSVEAVSKELAALNSRAAG NSEFTLPAPSKAPAEKVGGVLC TEEKRNFAPSPSPAPPASSLQS
22916	53284	A	23049	1	379	AYRNFTSASDVWSYGIVMWEV MSYGERPYWDMNQDIPNTAL LDPASPEFSAVVSVGDWLQAIK MDRYKDNFTAAGYTTLEAVVH VNQEDLARIGITAITHQNKILSS VQAMRTQMQQMHGRMVPV
22917	53285	A	23050	1	123	
22918	53286	A	23051	3	221	
22919	53287	C	23052	80	379	
22920	53288	A	23053	71	924	AFSVNSSNSWEKA*SQKCLQV NYLSLSSASYLP/CMTCPPSAPL NLISNVNETSVNLEWSSPQNTG GRQDISYNNVCKKCGAGDPSK CRPCGSGVHYTPQQNGLKTTK VSITDLLAHTNYTFEIVAVNGV SKYNPNPDQSVSVTVTTNQAAP SSIALVQAKEVTRYSVLAWLE PDRPNGVILEYEVKYYEKDQNE RSYRIVRTAARNTDIKGLNPLTS YVFHVRARTAAGYGDFSEPLE VTTNTGNKDHDPDVTSEAFIIQ LNPITVKSKELSVIFGSADILLQ

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22921	53289	A	23054	1	1102	MRWLLKWERKYTLYSSGVLK HKNLLESLLGQFLGPPAQRFD AGGVRPKNDGRFTVIQLVGML RGIGSGMKYLSMSYVHRDLA ARNILVNSNLVCKVSDFGMSR VLEDDPEAAYTTRGGKIPIRWT APEAIA YRKFTSA/SDVWSYGIV MWE\VMSYGERPYWDM SNQD VIK AIEEGYRLPPPMDCPIALHQ LMLDCWQKERSDRPKFGQIVN MLDKLIRNPNSLKRTGTESSRP NTALLDPSSPEFS AVVSVGDWL QAIKMDRYKDNFTAAGYTTL AVVHVNQ/EVSTQRCNTKGDL ARIGITAITHQNKILS\SVQAMR TQMQQ\MHGRMV PRLSTVLNK LKTLEISLPH PCTLIEELHFFNFV
22922	53290	A	23055	148	3229	NAFRFHLLNPAGESHDLRQDLL SAVRSPTKRQEQRWHRRTMAG IFYFALFSCFLGICDAVTGSRVY PANEVTLLDSRSVQGELGWIAS PLEGGWEEVSIMDEKNTPIRTY QVCNVM EPSQNNWLRTDWITR EGAQRVYIEIKFTLRDCNSLPG VMGTCKETFNLYYYESDNDKE RFIRENQFVKIDTIAADESFTQV DIGDRIMKLNTEIRDVGPLSKK GFYLA FQDVGACIALVSVRVFY KKCPLTVRNLAQFP
22923	53291	A	23056	57	450	VGDCLTSRGMSWVQATLLAR/ ALCRAWGGT/CRGALTGTSISQ VPR LAPRGLHCSA/ASVSSEQS LVPSPEPRQR/PPGGERDKASF LQTVQKFADTSVVD SGHIDFIY LALRKMREYGVERDLAVYNQL LNIFP

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22924	53292	A	23057	89	1502	VGDCLTSRGMSWVQATLLARG LCRAWGGTCGAAL/SQEPPLR SLASLPRGLHCSAAHSSEQV\L VPSPPEPRQEGPPRLVPFEGPV LGQGAGLGERGQGRAFL/LDGC RNLRTTSVRKRGPH/VDLFYLA LRKMRE\YGVERG/DLAVYNQL LNIFPKVFRPRNIQRIHVHYPR QQECGIAVLEQMENHGVMPNK ETEFLLIQIFGRKSYMLKLVR KLWFRPFMNVNPFVPRDLPQD PVELAMFGLRHMEPDLSARVTI YQVPLPKDSTGASKIPPKPHIVG HRACMSPHQESKSRSSKAAL\ ARHNPS\RPVF\VEGPFSLWLRN K\CVYY\HILRA\DLLPPEEGK WKRTPEEWELYY\RQLDLEY VRSG\WDNYEFDINEVEEGPVF AMCMAGAHDQ\ATM\VKWIQ GPAGDQPQTLAQNPWSFRLRR VQPGELPDILLQGWRSF/HPAR GPPRKTTTCKRQQQGPPELV
22925	53293	A	23058	1	2517	
22926	53294	A	23059	1	927	IIVVEFVSRLARAPSGPAVFSH LAMARLPLRGVRWGCLLTAVH PEPPTACREKQYLINSQCCSLCQ PGQKLVSDCTEFTETECPCGE SEFLDTWNRETHCHQHKYCDP NLGLRVQQKGTSETDTICTCEE GWHCTSEACESCVLHRSCSPGF GVKQIATGVSDTICEPCPVGFFS NVSSAFEKCHPWTSCETKDL\V VQQAGTNKTDVVCQPQDRLRA L\VVPIIFGILFALL\VLVFIKKV AKKPTNKAPHPK\Q\EPQEIFP DDLPG/SSNTAAPVAGRIFTWG GQPV\TQEDGQRESHFSCRERQ
22927	53295	B	23060	24	439	
22928	53296	A	23061	1	582	
22929	53297	C	23062	1	2607	
22930	53298	A	23063	248	430	ATNYTREQDSMWNCVR*GRTT ATTHSVTQRTDERQRRADTAL TLADYRNTSVTGVEAGLF
22931	53299	A	23064	776	1426	
22932	53300	A	23065	284	598	VFRLLRGQKSEPGKSRPKAL*N KPANTPVQSHISLYAAGINSDS KVR*SCRQSSARQSGSYL*TSR SPQNRQQTGEITATVIAFGTRR TAPDITPHPASAR
22933	53301	A	23066	3139	3792	

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22934	53302	A	23067	2	830	GVPNMAAPQDVHVRICNQEIV KFDLEV KALIQDIRDCSGPLSAL TELNTKVKEKFQQLRHRIQPVL YQRAFIWTASTFFFKLTYSLTDF SSTQHDFNSPTTPVTFSDLAEL AKEQDKESNQALLQEVENHK KQMLSNQASWRKANLTCKIAI DNLEKAELLQGGDLLRQRKTT KESLAQTSSITESTLMGISRMM AQQVQQSEEAMQSLVTSSRTIL DANEEFKSMSGTIQLGRKLITK YNR\RELTDKLLIFLALRLFLAT VLYIVKKRLFPFL
22935	53303	A	23068	1231	1458	
22936	53304	B	23069	1	2133	
22937	53305	A	23070	722	957	VFRLLRGQKSEPGQKQAKSTLE QTSEYPSNRGPIIRQSECSIRTPL PFVRLRD*VRGCGCAPLSSVD SFFCCTEAL
22938	53306	A	23071	2	1137	VPNMAAPQDVHVRICNQEIVKF DL\EVKAPIQDIRD\CSGPLSAL TELNPVKEKFQQLRHRTGP/ VEQLAKEQDKSEKQLLLQ\EV ENHKK\QMLQQFRPSWEGKLN SSPGKICNSDNLEKAELLQGGD LLRQRKTTKE\SLAQTSSITEST LMG/ISGRMMAQQVQQSEEAM QSLVTSSRTILDANEEFKSMSGT \IQLGRKLITKYNRRELTDKLLIF LALALFLATV\LYIVKKRLFPF VRFKVPVLAPFNSLFSGICPWF PEAPRLPKAEAHPLRFAPQLP CRLGWEHQCPPLFLQSSWLVK GEQSPWEEGPGIGMPPLGTYP PPSHHCALWEAAAAWSTLKSE PPRTRMPLLSAPIVPLNARSGG GKREER
22939	53307	A	23072	64	665	RVRGGEAELAMAAAE\SGAP NVPNRERGGAGRPKTPFECNIC LETAREAVSVCGHLYCWPC HQWLETR\PERQECPVCKAGIS REKVVP\LYGRGSQEAIPRIPELK TPPPPPRGQR\PAPESRGGF\QPF GDTGGFHF\SFGVGAFPF\GFFT TVF\NAHEPFRRGTGVDLG\QG HPSLQLGKEFPLPGFSAIFFLFW

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22940	53308	A	23073	1	416	MQRRRRRRLLLLPPRRQTDRAL PPPPSPGSMPPPLPPP/PPARGG GLRPGDGLYPK/PSPARRGSGA RTSWCTMCAPPSTSAPRASRRP RPSSCATRPPTSKPPPA\GHAPH PPPRDLGGGLDSGVQSDGVLQ HLQRPGH
22941	53309	A	23074	1	1713	
22942	53310	A	23075	1305	1538	LKVKNCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAA YRKRKKGHKSSLSLSV KINKTAAANK
22943	53311	A	23076	49	355	
22944	53312	B	23077	253	471	
22945	53313	A	23078	1267	1497	LKVKNCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAA YRKRKKGHKSSLSLSV KINKTAAANK
22946	53314	A	23079	3	1237	HEVAGAVPGAIMDEDDYYGSAA EWGDEADGGQQEDDSGEGED DAEVQQECLHKFSTRDYIMEPS IFNTLKRYFQAGGSPENVIQLLS ENYTAVAQAVNLLAEWLIQT GVEPVQVQDTVEYHLKSLLIKH FDPRIADSMFTEEGETPAWLE\Q MIAHTTWRLDFYKLAEAHPC LMLNFTVKLISDAGYQGEITSV STACQQLEVFVRVLRSLATILD GGEENLEKNLPEFAKMVCHGE HTYLFAQAMMSVLAQEEQGGG AVRRIDQEVQRFAQEKTVLTQE AIITVKGVSLSSYLEGLMASTIS SNASKTIVAAMSNLVPPVELAN PENQFRVDYILSVMNVPDFDFP PEFYEHAKALWEDEGVACYE RSNEYQLIDCAQYIFVLEMQVP CCEEAQSHPGQHGGVQVGRN
22947	53315	A	23080	1358	1589	LKVKNCTSS*SPTIGHD*QSNL SLPPSDFAKPPFPFSLLRCSKFR KLKAA YRKRKKGHKSSLSLSV KINKTAAANK
22948	53316	A	23081	33	458	GITGSTDASGVTMKNPFVFS RRKNRKRHVNAPSHVRRKIMS SPLSKELRQKYNVRSMPIRKDD EVQVVRGHHYKGGQIGKVHV YRKKYVIYIERVQREKANG/DK DRKKILERKAKSRQVGKEKGK YKEELIGKMQEYIEP
22949	53317	A	23082	1	576	
22950	53318	B	23083	37	276	

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22951	53319	A	23084	124	549	NNSLSSPVQADVYFPR LIVPFCG HIKGGMRPGKKVGVMGIVDLN PKSFAINLTCGDESDPPADGAIE LKAVFTDRQLLRNSCISGERGE EQVSNPLLSIHSTTMPFRVEILC EH\HCFR\VFVDGHLDFYHPH SNRYLAI
22952	53320	A	23085	1	215	QGFIPPLKEENFTLPPPGKFGP PKGSLNSPPS/PSSP*SPGGGILL VYYLYRALFQKGCKEAAWLEY PLT
22953	53321	A	23086	533	983	PWGP GCNKRWPCLAKDPPTP QSSGVGPFGGAEPAGAYIRTG PHLGPPPPPPDSSTNLHSPNPS DDGADTPLAQSDDEEERGDGG AEP\G\PAASSGPLAYRDPAGY SPTSRPPGPSPEPLG/AEDPDSLL ASRAPRGNGWWD CGTLS
22954	53322	A	23087	1422	1670	NRYIDKTGWAWWLTPVIRHFR RPRWVDCLRLGVREQPGQHSKI KSLQKNAK\ISQAWWHAPVDP ATWKADAGGSLEPGSLRLQ
22955	53323	A	23088	2	663	VLLDERSAALDGAKRDGTLAL AAGALCREARAAQVFLKGGY EAFSASCELC SKQ/INVSANCP NHFEGHYQYKSILCGMTTHKA DISSWFNEAIDFIDSIKNAGGRV FVHCQAGISRSATICLAYLMRT NRVKLDEAFEFVKQRRSIISPNF SFMGQLLQLESQVLAPHCSAEA GSPAMAVLDRGTSTTTVFNFV SIPDHSTNSALSYLQSLITTSSH
22956	53324	A	23089	3	206	

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22957	53325	A	23090	982	2252	LFLEKRRPALGPNRQRAPQGR STLGALRPAMVMEVGTL\ DAG GLRAL\ LGERAAQLPACLD CRS FF\AFNAGHIAGSVNVRFSTIVR\ RRAKG\AIGALE\HIVPNAELR\G RLLAGAYHAVVLLDERSAG\LD GAKRDGTLALAAGRA/LCREA RAAQVFF/LSKGGYEA\FSASCP\ ELCSKQSTPMGLS\LSLSTVPD SAESGC\SSCSTPLYD\QGGPVE ILPFLYLGSAYHASRKD\MLDA LGHRLPWINVLSQIVPNHFEGH \YQKSIPIVEDNHKADISFWFN\ EAIDFIDSIKNAGGRVVFVHCQA GISRSAT\ICLAYLMRTNRVKLD EA\FEFVKQRRSIISP\NFQLHGA SLLQFEFPRMLGPALFRAEAGK PRQMAVL\DRGT\STTTVFNFVP SIPVHSTNSALSVPFRAPLTDLS QLVERPTGR
22958	53326	A	23091	13	287	
22959	53327	A	23092	1	492	
22960	53328	A	23093	1	636	
22961	53329	A	23094	1	506	PTRTWTRGRIPRLSAQPSRGAR GTMADPRVRQIKIKTG\VKRL \KEKVL YEKEPKQ\QEEKIEKM RAEDGENYDIKKQAEIL\QES\R MMIP\D\CQRR\LEAAYLDLQRI LENEKDL/EKEAEEYKEAR\VL DSVKLESLKLFSYGVVFALKPR GPILQSIIFDHVLCVQV
22962	53330	A	23095	1	786	
22963	53331	A	23096	183	1059	VLGAFIWQGLDPSPETAFDHR ATEWGTNDQSLCLNSP*\DAPS AKHEYQASVSGSVSSKPEIDLQ LYDEV RDQDVPVKRNFARIVV NVSDTNDHAPWFTASSYKGRV YESAAVGSVVLQVTALDKDKG KNAEVLYSIESGSHPPYKTAAD VLLKAPPPGWRPTNTKPVHSTE AQPTQNQRTQQKHNGGASRSP RHSFATSTRAGAGICGCKTRRW MTRWMEESRGS LQTL PSTRLP GSSAAWLDPEEQAQSLQFSSQE APFLGEGGENHIKGVPHGTKES QQQPLNHRSSL
22964	53332	A	23097	1	1224	
22965	53333	A	23098	1	660	

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22966	53334	A	23099	129	595	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIV MALSPRGWRSKFGMPWHSKPT WIMTL*FPLEKTGALS LTS DTS MFTVVVLT LGGLPLSEA*T/GG NYDSHFVDVKGTGTIIVAKPLD AEQKSNNLTVEATDGT TILT
22967	53335	A	23100	1	1782	MAARIEVIHEL SIRLLMKTDL DAATAALLNVQPAKSGDNTSG APFPGKISQTLLKDPHNGYHVV FALAGSPKDADDTSIYMFYQK VGDN SIDS WKNAGR VF KD SDK FDANDPILKDQTQEWSGSATFT SDGKIRLFYTDYSGKH YG KQSL TTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYL VFEANTGTENGYQGEESLF NKAYYGGGTNFRKESQKLQQ SAKKRDAELANGALGIIELNND YTFEKSNEAADHFKHGGGATIK GRVADNGKPQLSSLTYIDIRVIE ESIYPPAILPLEIFITASGEEYS GG VIGKIHATDQDVYDTLTYS LDP QMDNLFSVSSTGGKLI AHK KLD IGQYLLNVSVTDGKFTTVADIT VHIRQVTQEMLNHTIAIRFANL TPEEFVGDYWRNFQRALR/NIL GVRRNDIQIVSLQSSEPHPLDV LLFVEKPGSAQISTKQLLHKINS SVTDIEEIIIGVRILNVFQKLCAG LDCPWKFCDEKVSVD ESMST HSTARLSFVTPRHHRAARQQ/R GPPLHNPADT*TTARKYNCDKR
22968	53336	A	23101	184	13958	AMGRHLALLLLLLL FQHFGDS DGSQRLEQTPLQFTHLEYNVTV QENSAAKTYVGHPVKMGVYIT HPAWEVRYKIVSGDSENLFKAE EYILGDFCFLRIRTKGGNTAILN REVKDHYTLIVKALEKNTNVE ARTKVRVQVLD TNDLRPLFSPT SYSVSLPENTAIRTSIARVSATD ADIGTNGEFYYSFKDRDTDMFAI HPTSGVIVLTGRLDYLETKLYE MEILAADRGMKLYGSSGISSMA KLT VHIEQANECA
22969	53337	C	23102	56	331	

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22970	53338	A	23103	2249	2680	GEFLKTREFSIYFLEKYTTFPGE NLEHGFWDSSSTSPVLLHPGIPA SRI/PVSSIFTKVPPKKSATKP/PV SIWGAPPLGPPGFWGCCPTGEQ RGVCHPSEPHPPVVD FRKKPPF LCVSLSLINIFKSNKFLLTTCNL VIFYTCSL
22971	53339	A	23104	739	1672	CQEAASEFGGPLHTPAMFLRRL GGWLPRPWGRRKPMRPDPYP EPRRDSSSENSGSDWDSAPET MEDVGHPKTKDSGALRVSRAA SEPSKEEPQVEQLGSKRMDSLK WDQPISSTQESGRLEAGGASPK LRWDHVDSSGGTRRPGVSPEGG LGVPGPGAPLEKPGRRKLLG WLRGEPGAPSRYLGGPEECLQI STNLTLLHLELLASALLALCSR LRAALDTLGLRGPLGLWLHGL LSFLAALHGLHAVLSLLTAHPL HFACLFGLLQALVLA VSLREP N GDEAATDWESEGLERE GEEQR GDPGKGL

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22972	53340	A	23105	122	2437	RLELKLPLWTMRFTMELLGH LSIFKITGKQKQLTRTAPGPSGQ LRSNQTTGNSLEPSGQPRSSQTT GNSLEPSGQPRSSQTTGNSLEPS GQPRSSQTTGNSLEPSGQPRSSQ TTGNSLEPSGQPRSSQTTGNSLE PSGQPRSSQTTGDSLEPSGQLRS NQTTGDSVQPNNREQPGTVRS APLQPNNREQPGTVRSAPLQPN NRGQRPTKQQGTTWNRQVSSA PTKQQGTAR\PSGQPRSNQTTG NSLEPSSQLRSNQTTGDSVQPN NREQPGTVRSAPLQPNNRGQR TKQQGTAR\PSGQPCSNQTTGN SLEPSSQLRSNQTTGDSVQPN REQPGTIRSAPLQPNNRGQRWD RQVSSAPTKQGTALGPSG\SSAP TKQQGTALPSSQLRSNQTTGN SLEPSGQPRSNQTTGNSREPSSQ LCSNQTTIGNSQDRQVSSAP/IQT TGNSQDRQVSPAPTKQQGTAG NRQVSST/PIQTGNSVQPNNREQ PGTVSGAM/VWVATPVKGP VETSAHKVSAAGLPKKKT/QPG VTGGAPRLTLNTVLPKHSRTPS RHEAGSTQALYHNGQAQYALS FPHEAAPMAAFYVVTGIEVTTA LTLEEAPCTVEITATLTLEPPC TVFWNKTERNRTLVDKGSN TKGFVQTATCCFRADCKASRPS PHPPSPHREWTSDLRHKQVSKF PGAHLRPGHPELPIQEAWDRGE
22973	53341	A	23106	605	813	LFVFINFRENPAALLRWAYARIT NVYP\NFRPTPKNSLMGALCGF GPLIFIYYIIKTERVSIQTRCLVF
22974	53342	A	23108	273	936	AYSNKVPSWNQKA\PSPTKPA TLIFDFPAVKTVRNKFVFFINYP VSGYTEDLKKFLKPYTLEEQKN LTVCPDGALFEQKGPVYVACQ SPISLLQACRGMNDLDFGYSQR NPCILVKMNRHIGLKSEGVPRID CVSKNEDIPNAVYPHNGIIDL KYFPYYGEKLHVGYLQPLVAV QVSFAPNDTGKEVTVECKIDGS ANLKSQDDRDKFLGRVMFKIT
22975	53343	A	23109	104	478	ETEVGGLVEASMSHNCCTALQ PGQHSQKENLQNKPIPGREKY* VSIEFELIYFP/YYCQVGYLQPL VAVQVSFAPNNTGKEVTVECKI VDGSANLKSQ\DDRDKFLGARV MFQNHSTVHMSRVSSTE

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22976	53344	A	23110	3	903	LLSPVRAHTMTKNEKKSLNQSL AE\WKLFIYNPTTGEFLGRTAAS WGLILLFYLVFYGFL\AALFSFT MWVMLQTLNDEVPKYRDQIPS PGLMVFPKP\VTALEYTFSRSDP TSYAGYIEDLKKFLKPYT\LEEQ KNLTV\CPDG\ALFEQKGPVYV ACQFP\ISLLQACSGMNDPDFG YSQGNPCILVKLNRIIG\LKPEG VPRIDLCFKRMKDIPNVAVYS\ HNGMIDLKYFPYYGKKTAMF/ VGIYQPIGLLVQVSFAP*QPLGK EVTVE/CAKIDGSSQPKKVQDD\ RDKVFGDEFMFQIHSTVH
22977	53345	A	23111	467	931	SRDSRRGTPLAGGRGRDFAGQ MGRVQGRHGSRGRLPSGDAR VNAERAEPVGAGAGGPGGGSS VRGFCGRSWSEA/RGRRRAGG GVH\IEP\RYRQFP\QLTQIPRCSQ SEF\FSGLMWFWIF\WRFWHP K\KVLGHFPV/YPDPSQWTD\EE L\GIPPDD
22978	53346	A	23112	1	390	VTIPTSLAELQGLPHIRVFLDNN PWVCDCHMADMVTWLKETEV VQKDRLTCAYPEKMRNRVLL ELNSADLDCDPILPPSLQTSYVF LGIG*ALIGAIFLHYRNNGLPTIS SEGGLASLLCKDSRGVPLL

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22979	53347	A	23113	3	1653	PQRIQRGVPTRGEEVAPGRRQE EEREQERGAERPDPPCVLSGGK GRGNRPLREAPGGEGVSQVPA AAPLPRFHERKVFFFQTLPPAR ALRAQPPEPSEAPSQPSGETR AAMPGGCSRGAAGDGRLRLA RLALVLLGWVSSSPTSSASSFS SSAPFLASAVSAQPPLPDQCPAL /CACRSEAARTVKCV\NRNLTE VPTDLPAYVRNLFLTGNQLAVL PAGAFARRPPLAELAALNLSGS RLDEVRAFAHEHLPRLRLDLS HNPLADLSPFAFGSNASVSAPS PLVELILNHIVPPEDERQNRSE GMVVAALLAGRALQGLRRLEL ASNHFLYLPRDVLAQLPSLRHL DLSNNSLVSLTYVSFRNLTHLE SLHLEDNALKVLHNGTLAELQ GLPHIRVFLDNNPWVCDCHMA DMVTWLKETEVVQKDR LTC AYPEKMRNRVLELNSADLDC DPILPPSLQTSYVFLGIVLALIGA IFLLVLYLNRKGIKKWMHNIRD ACRDHMEGYHYRYEINADPRL TNLSSNSGCLEEILED RPRTLH
22980	53348	A	23114	288	877	ASRLSLPRTTSMRSSSTSPSSSS SSSLCRFLNSRVTDAAFNFL VWYYCTLTIRESILINNGSRWG RAGPEGGEHGMGCQGPSGKGR EQGAGG*WWVFCSR\KGGW VFHHYVSTFLSGVMLTWPDGL MYQKFRNQFLSFSMYQSFVQF LQYYYQSGCLYRLRALGERHT MDLTVGESGVALASGHSPFLPS

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22981	53349	A	23115	1	1273	MAPLHSILGNRVGLCQASVRA CPGATVSSQCRASLRSLAWRG SELPANRGRTWPGPGGLRLQA APRLAYLGRATLLVLTPLYDLP PNVRFTSMPASPHTYFLVLGAPI FLLLRSTWSYYHACRFEYATPN DRNTTYLAISGPTRRTYDVATF AYKDEYEKFKLYLTIILISFTC RFLNLSRVTDAAFNLLVWYY CTLTIRESILINNGSRPDGLMYQ KFRNQFLSFSMYQSFVQFL\QY YYQSGCL\YRLRALG\ERHTM\D LTVEGFQSW\MMWRGLTFLLPFL FLW\YNSGQLFNALTFLKPGPR DPQLQGVGRCLCCGFPFL\LFLL GNFFTTLRVVHHKFHSQRHGS KKDLRLGLSPCRPRRGFLVPVC FWEGDWEGAPSSVRVSGGLFY SPLGFMGRCGPGKEDPGPSCPQ
22982	53350	A	23116	238	398	
22983	53351	A	23117	1	386	
22984	53352	A	23118	13	580	
22985	53353	B	23119	39	1171	
22986	53354	A	23120	381	795	PPSSKAPSSKGPACIVCIYWALI LQSNEVTITEDKFNNLIKAAAV TVEPFWPSFFAKALASVNIGSLL CNAGVG/SMAPA ACTAQAGGP ATSTTAASASFRNHNPRIAPKFR GVLAHEQYLSERATVWWAPNP NPKSLF
22987	53355	A	23121	1	960	
22988	53356	A	23122	2	3952	
22989	53357	A	23123	1058	1494	KSVRLVVN/YLRTQKAVVRVSP EVPLQNILPVICAKCEVSPEHV LLRDNIAGEELELSKSLNELGIK ELYAWDNRRVPSAVPMQGPWP AEHFLQVNEQPPAGSPSPCPSSS SSSSGLRGGMQTANGPACALTP TCAQTDCPCPTSH
22990	53358	A	23124	195	398	TDSSSALQPQHRGRPALRQRT PRRSP/SPGLSPPRGASPAS/SGA PARGVAFGGDEPPIGAEAMYSK P
22991	53359	A	23125	2	155	
22992	53360	A	23126	1	339	

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22993	53361	A	23127	150	1017	LGRWRQDQVPHGLECRSQSEW SCTDSRQHSSS\YSDSRRQEIGK MRYVSVRDFKGGKVLIDIREYW MDLKRLPRKPRTGEAGSGSLSS PGADTPVEAAVTWRLGLGSVD VGSFRAWQRGKSAAVGHTVSP RWPRWQGGDSSALSMASLSTL TCSWGLRYSALSPTTSAQREEG SALYRHLSPPSLRFYPTVKWAT LAITRPRPPAPRSHSHHPQPRAL CPVWVLFQHPKTHGENLGDRW KEGSALVSSKGTPAKLSSGRIR NALQNTLGEVSVARIQTHRGIF VETTEARL
22994	53362	A	23128	1	584	APIECGGIPSLPVLQCQRANDQE GVRLLPSEAMPKSKELVSSSSS GSDSDSEVDKKLKRKKASLL/P ENPVKK\QKTGETS\RALSSF*TE PASSRDDNMFQIGKMRYVSV\ RDFKGSKA*FDIREYWMDPEGE MKPERKGISLNP\QQWEPSLKE QISGPLIDASKKTCKISEPILIKPC TVPVVLICLVTVAVCF
22995	53363	A	23129	186	687	LLWARGLGRAKSAVPTVSTML GLPWKGGLSWALLLLLLGSQIL LIYAWHFHEQRDCDEHNVMAR YLPATVEFAVHTFNQQSKDYY AYRLGHIFNSWKEQVESKTVF SMELLGRTRVWEYLKTTIDNC HFQESTELNNTFTCFFTISTRPW MTQFSLNKTCLGEGFH
22996	53364	A	23130	232	402	LFKAWECCFLIFLQVVITRLKLD KDRKKILERKAKSRQVGKEKG KYKEET\NEKMQE
22997	53365	A	23131	637	758	NVEEKNRKKILERKAKSCQ\K KEKGEYKEETIGTMRECGL

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22998	53366	A	23132	1	1095	IVFLLYLETCLEVMDKPNPEA LSDSSERLFSFGVIADVQFADLE DGFNFQGTTRRRYYRHSLLHLQ GAIEDWNNESSMPCCVLQLGDI IDGYNAQYNASKKSLELVW\Q FKRRKGPVHHTWGNHEFYNFS REYLTHSKLNTKFLEDQIVHHP ETMPSEDYYAYHFVPFPKFWFI LLDAYDLS/ALGAWDQSSPKYG GSVWKILEGSHNP\NTGNWNSS SRDFSEA/RSLFQFNGRVSAQEQ LNWLNEVLTFSDTNQEKVVIVS HLP\LYPGPPFDNVCLAWNYRD ALAVIWSHECV\GVSLLGHTHD GGYSEDPFGVYHG\NLEGVIET APDSQRFGTVHVYPDKMMLKG RGRVPDRIYELQGKEEPSHC
22999	53367	C	23133	235	382	
23000	53368	B	23134	63	293	
23001	53369	A	23135	160	330	
23002	53370	B	23136	1	870	
23003	53371	A	23137	2	1013	
23004	53372	A	23138	1	1552	
23005	53373	B	23139	120	1034	
23006	53374	A	23140	1	584	RTRGRRSLAFLLLAERGAAAA VLWSGCRRFRARLGCLPGGLR VLVQTGHRSLTSCIDPSMGLNE EQKEFQNAAFDFAAREMAPNM AEWDQKELFPVDVMRKAQQL GFGGVYIQTDVGGSGHVRDLT SVIFEALA\TGCTSTTAY\IRHPQ CPQSQHSFVQEGGTHYKAGHL CCRQWGPRACLPPGRPCHRG
23007	53375	A	23141	2	412	
23008	53376	A	23142	47	487	
23009	53377	A	23143	77	459	GWKGIEHTLGRCLEAQQGVINY RMLLSWRRWLVAHPVF*SFSCE VGPVGQS*RTMTLHCRHSDPV AKRLSCRRGDFASVVVLCPPPQ RLRTLKHFLFFGGLPLSIDFVMT VDFCCHLHLTDFSSNFGF
23010	53378	A	23144	1	304	KVAGSPSPTAGQQVLDVNSCL DSSVLDSSFLTFSGLHAE/AEGS TGGPAALAYLGLKTLCTSQQAF AGQMKSDFLDDSKSDLEEPW ELRKEGAPRSRDRE
23011	53379	A	23145	1	207	
23012	53380	A	23146	1	3009	
23013	53381	A	23147	3	298	
23014	53382	A	23148	1	636	
23015	53383	A	23149	1	795	

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23016	53384	A	23150	125	1527	SSPRQQTQLARVHP/DGRAQ/LA PSCLPGLGLCPLPVCPPVCNCPA CPCHEHCGEAP*GVAIAKRGAL RVHHPHSCGGPRAMTVTLHGQ DVLMLPGDLVGLQHDAGPGAL LHCSPAPGHGPGQAPYLSANAS SWLPHLPAQLKGTWACPACAL RLLAATEQLTVLLGLRPNLGLR LPGRYEVRAEVANGVSRHNLS CSFDVVSPVAGLRVIYPAPRDG RLYVPTNGSALVLQVDSGANA TATARWPGGSVSARFENVCPA LVATFVPGCPWETNDTLFSVVA LPWLSEGEHVVDVVVENSASR ANLSLRVTAEEPICGLRATPSPE ARVLQGVLVVLLAGSSGYLVG FKFLESHGSDSGSANSFHCLISQ NEFKTLPLDLTRAPRYSPVVEA GSDMVFRWTINDKQSLTFQNV VFNVYQSAAVFKLSLSADSAP RPRWRLQSPRVGRSLSPDPGFFG SPGPCQPRQLQAFLI
23017	53385	A	23151	648	1387	ASTQSLLAWCPA WLSIPSTWPS SFSSGCPG/CKAQPVYEVSRSSY VYLEGRCLNCSSGSKRGGYTFT LTVLGRSGEEEGCASIPSPNRP PLGGSCRLFPLGAVHALTTKVH FECMGWHDADAGAPLVYAL LLQRCRQGHCEEFCVYKGSLSG YGAVLPPGFRPQFEVGLAVVV QDQLGAAVVALNRSLAITLPEP NGSAMGLTVWLHGLTASVLP LLRQADPQLVIEYSLALVTVLN ETYTESL
23018	53386	A	23152	2	654	DKHIWLSIWDRPPRSCFTRIQRA TCCVLLICLFLGANAVWYGAV GDSAYSTGHVSRLSPLSVDTV AVGLVSSVVVYPVYLAILFLFW MSRSKVAGSPSPTPAGQQVLDI DSCLDSSVLDSSFLTFSGLHAEV INTLADHQHRTDFGGSPSVLII TVSLRSYKFAISLCTTYLWVINT LADHRHRTDFGGSPWLLIITV FLRSYKFAISLCTTYLC

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23019	53387	A	23153	2	4072	SRDPAGSYHLNLSSHFRWSALQ VSVGLYTS LCQYFSEEDMVWR TEGLLPLEETSPRQAVCLTRHL TAFGASLFVPPSHVRFVFPEPTA DVNYIVMLTCAVCLVTYMM AAILHKLDQLDASRGRAIPFCG QRGRFKYEILVKTGWGRGSGT TAHV GIMLYGVDSRSGHRHLD GDRAFHRNSLDIFRIATPH\SLG SVWKIRV\WHDNKGLSLALGFL Q\HVIVRDLQTA\QSTFFLVNDW LSVETEANGGLVEKE
23020	53388	A	23154	1	10922	MPPAAPARLALALGLGLWLGA LAGGPGRGCGPCEPPCLCGPAP GAACRVNCSGRGLRTLGPALRI PADATALTAMAKADGDVKKY GSKRGALALTHGHSLLRDVSH NLLRALDVGLLANLSALAELDI SNNKISTLEEGIFANLNLSEINL SGNPFECDCGLAWLPRWAE EQ QVRVVQPEAATCAGPGSLAGQ PLLGIPLLDSGCGATLVGPHGPL ASGQLAAFHIAAPLPVTATRW D FGDGS AEVDAAGPAAS
23021	53389	A	23155	3887	14184	HVLC A WVTYMMVAAILHKLD QLDASRGCAIPFCGQRGRFKYE ILVKTGWGRGSGTTAHVGIHA VWGGQPERPPAPGTATEPSTAT VWDIFQIRHPAQPGVACWKIRV FGTTTKGSALPRFPCSTSSSGTC RRHAAPSSWSMTGFRWRRRPT GAWWRRRCWPRVRPRSVFPLR HAALLRFRRLGAE LQRGFDDK HIWLSIWDPRPSYFTHIQRATC CVLLICLFLGANAVWYGAVGD SAYSTGRVSRLNPLSVY
23022	53390	A	23156	1	442	GGASGMGGITASTVNQ\SLLS P LVLEVD P\NIQAVRTQEKEQIK\ TLNNKFASFIDKVRFLEQQNKM LETKWSLLQQKTARSNMDN MFESYINNLRRLQLET LGQEKLK LEAEFTTWGPPLMPPTATKQFN CFFFLVQNKTSASSANVK
23023	53391	A	23157	1	497	
23024	53392	C	23158	208	422	

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23025	53393	A	23159	81	1339	ELSSPRSSFSAPSRISAWFGPPAS TPASTMSIRGTQKSYKGSTSGP RAFKQAAS*QRSGPGRISSSSF SRVGSSNFRGGLG\GGYGGASG \MGGITAVTVNQ/SRALLSPLVL EVDPNIAVRTQEKEQIKTLNN KFAS\FINDEVGFLEQQNKMLGT KWSLLDQQKTA\RSNM\DNMF\ ESYINNLRRLQETLAQEKLKLE AELGNMQGLVEDFKNNYED\EI NKSTETENEFLIKKDVDEAYI NELYEEEIRELQSQISDTSVVL DNSRSLDTSIIAEVKTEISEMN RNIWLQAETEGKGGRISELEA GIADAEQRRELVIKDANAKLSE LEAALQQTCKLLE\MENMSIHT KTTSGYAGGVSLAYGGLTGSG LSYGLSSSSRSGAGSSSFRTSST RAMVVKKIKTRDGKLLTSLR
23026	53394	A	23160	1	651	MTAFNSGKVDIVAINDPFIDL YMVYMFYDSTHGKFHGTVK AENGTLVINGNPITIFQDQDPS KIKWAP/LAKVIHDNFGIIEGFM TTVHTITATQTINGPSGKLSRDG CRALQDIIPVSTGAAPVGVKVIP ELNGKLTGMAFHVPTANVSVA DLTCRLEKPA/KYDDIKK\NTHS STFDAGAAIVLKDHSVKLISWY DNEFGYSNRVVHLMAHNASKE
23027	53395	B	23161	1	382	
23028	53396	A	23162	3	1151	ASAHASAVRQSAAIFFCVASRA HIAETPLGKVKVGNGFGRIGR LVTRAAFNSGKVDIVAINDPFID LNYMVYMFQYDSTHGKFHGT\ VKAENGKLVINGNPITIFQE\RD PSKIKWG\DAGAEYRRGSPLGV FNQPWRKAGGSICKGGSQKGSS ISAPSAECPFCFVMGCEPMKKY DKQAFKI\ISN\ASCTNQLL*HPL AKG*FHDNFGNSLEGLHDHKS MAITANPRKTVD\GPSRGKLWP LMGRGAL\QNIIPASTG\AAKAV GKVIPELNGKLTGMAFRVPTAN VSVVDLTCRLEKPAKYDDIKK VVKQASEGPLKGILGYTEHQV VSSDFNSDTHSSTFDAGA\GIAL\ NDHFVKLISWY\DNEFGYSNRV V\DLMAHMGFQGS
23029	53397	A	23163	160	236	
23030	53398	A	23164	931	1124	
23031	53399	A	23165	132	303	

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23032	53400	A	23166	20	171	
23033	53401	A	23167	1008	1262	HELQCSLLPVRHATAGHTNGQ NRLHWGHVAHSNYGAALKTN GVEVR*FTAAIARCDGNPYESF RKDVRADFQTRIDAIVRCLPK
23034	53402	A	23168	732	1162	RCHEKGRKGHQAPTGSTRPDG TLSACRSCQQGQMPASAGVP ARQMGSTGNLPHLV*PYFLGLS SKAQHTG*LHKKR
23035	53403	A	23169	2	1093	
23036	53404	A	23170	236	496	
23037	53405	B	23171	22	3084	
23038	53406	A	23172	305	522	LRDGRGSMSSSPNSASGSAICP ASSVMPETVSVSRVMPNVTKP A/MTAKQTRIRNQMVAITYES DAWNSYQ
23039	53407	A	23173	177	386	
23040	53408	A	23174	3	200	GAVAPMHPLAHPVPGAAAQPP PA*QPATPCHQPA*GQPAPPDV PGEPSAGRSLHHAHICLAPNEQ
23041	53409	A	23175	171	535	
23042	53410	A	23176	190	505	VPTDRIRTRLTSVCKRRCEVHQ LEDRPFVYQVA/PRRD*SFETS VWNHMRKQ/PPLDVRQLAS*N VLHRQLDIMDSAVASMYSIHLS IKMGIGFSGVTTVVKGTPK
23043	53411	A	23177	349	1272	
23044	53412	A	23178	518	1451	VSSSIIMFGPLSQFPRQVGSSV KRPSNVVCPGLMFSFFSSAA*IP **PLI*QPGV
23045	53413	A	23179	2436	2894	TSPDVLRAGRVPSVQGTSPSQ SCPGQRPHGPNSKAYGR/LSVM AQYYCNVIPVLE/VPPSAFTPPP KVDSA VV/RLVPHATMPHPVK DVRVLSRITTEAFNQRRKTIRNS LGNLFSVEVLTGMGIDPAMRA ENISVAQYCMANYLAENAPL
23046	53414	A	23180	1846	2557	IPVSERQGS DWRFFSVYVVKKA GGLIYQLDSYAPTGLRLEKTF\S YPLDLLLKLHDERVLVAFGQR GRHPEWGHAVL\AINGMDVNG RYTAD\GKKVLEYLG\NP\ANYP V\SYLFAQPR\TSNDKMLAL MFHSLFAIGSQA CLPEQ GK PQG IENAWKTDTFKLH\CYQTLT\GI KFVVLADPRQAGIDSLLRKIYEI YSDFALKNPFSLEMPIRCELF QNLKLALEVAEKAGTFGPGS
23047	53415	C	23181	34	225	
23048	53416	B	23182	105	381	
23049	53417	A	23183	1	837	

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23050	53418	A	23184	3	744	HEASCRSERRRRQMADFDTYDD RAYSSFGGGRGSRGS\AGGHGS RSQKELPTEPPYTAYVGNLPF\N TVQGDIDAIFKDLIRS\VR DKVTGKFK\GFCYVEFDE\DSL K\EALTYD\GALLGDRSLRVDF AKGRKTKIRVAFGF\RKGGPDD R\GFRDDF\LGGRGSRPGD\RR TGPPMGSR\FRD\GPPLRG\SNM DFREPTTEERAQRPRIQLKPRT VWRPLNQVANPNSAIFGGARPR EEVVQKEQE
23051	53419	C	23185	1	1038	
23052	53420	A	23186	1	1486	MGRNQSRKAENSKHESTYSP KDHSSSQAMEQSWTENGFEKL GFRRKEALYYDLTASCQSQEL FQLYAGMSVVGTSMPVQAVCP YCGNRIITVTFVPGALTWLLC TTLFLFGYVLGCCFLAFCIRSLM DVKHSCPVCQRELFYYHRLRQ MELASSARTVVAPSRPCAGREG RGDANGKNSSPTAGSAMSSEPP PPPQPPTHQA\GVLLDTPRSRE RSPSP\LRGNVVP\SP\LTRRTRT FS\ATVR\ASQGPVYKG\CKCF CRSKG/HIGFNYPPAGWAGPDIF PGTSLDVGRGSY\VPSGKGDEV TLLKCAPIPTPKNE\KLAGPWV VHHSPWHPGT\KHET\WSG\HVI SFLGGLVESTPLSLCFVGDFAG RRQQTLEDDILPHETGLQRGNG PSQVSPGGKGYGGAGVGCGVF PAISTAYGPLQQPLHHLKSIKSH LKRRGAHWWSGGSNPIPGSGS RVGISSQLAQTHGLNPQNPSSS WSWRPQIPRSGPLAA
23053	53421	A	23187	2	617	
23054	53422	A	23188	1	993	
23055	53423	A	23189	779	1210	AAAGSEAGRRRGADPTRGPHV LPGSRQRRP/PIFPSLDLSGFFLF CSEFCPEIKSTNPGISIGDVAK KKKL GEMWNSLNDSEKQPYFT KAAKLKEYEKDVADYKSKG KFDGAKGPAKVARKKVEEED QEEEEEEEEEEEEDE

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23056	53424	A	23190	116	522	KAPYSTNSLSLPPFPILFMGSGY RKGPTFQEPKPLPGAAARGPGC DPTQPPRHSAPRDHGPPSPRCS PRPARPRASPAWLPPRAPTPPSP PAPAAAPRSCRGHARASSGRSG TTATPRRRRGGLWNQSPMDIK G
23057	53425	A	23191	1	152	
23058	53426	A	23192	1	676	MWSAGRGGAAWPVLLGLLLA LLVPGGGAAKTGAELVTCGSV LKLLNTHHRVRLHS\HDIITYGS GSGQQ\SVTGVEASDDANSYW RIRGGSEGGCPRGSPVRCGQAV RLTHVLTGKNLHTHHFPSPLSN NQEV\SAFGE\EGEGDDPGTLW TVRCSGTA/HWEREA\VRFQH VGTF\VF\SVTGEQYGSPIRGQH EVHGMPQCQ\QHNTWKAMEGI FIKPSVEPSAGHDEL
23059	53427	A	23193	1	1044	
23060	53428	A	23194	1	1083	MTATLAAAADIATMVSGSSGL AAARLLSR\SFLLPHNGIRHCAY TA/SLRQHLYVDKNTKIICQGFT GKQG/TPFHSQQALEYGTKLVG GTTPGKGGQTHLGLPVFNTVK EAKEQTGATG\SVIYVPPFAAA AINEAIE\AEIPLVVC\YPRGIPQP GLGHSSSHKTCGPGKDKAYWG PNCPGV\INPGECKIGIMPG/HIF HKKGRIGIVSTSGTLTYEAGH/Q TTQKLGLGQSLCVGIGGDP\FN GTD\FDID\CLEILFERFLPQEGII G\EIGGNA\EENAAEILEPLYSGS KF/ARPVVS\FIAGLTAPPGRRN GVMPGAHISGREKVGAKRERSS ALQSAGVVV\SMSPCTAGEPRF YKEFEKREDRL

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23061	53429	A	23195	1173	2110	FFTELEETILKFIWNQKRACISK ARVNTNDKSGGITLPDFKLYNE AIVAKTTWYWYKSRHIDQEK REEKKE*KKDPSVPETLKKKQR NFTELKIQCLSKKFAQKMLQTA RRKLIYEKVKHCHKEYRKMYR TEIRMARMATKAGNFYVPAEP KLAFVIRIRGINGVSPKVRKVLQ LFLLYQIFNGAFVKLNKASINM LRIVEPYIA\WRYPNLKSVELI YKCGYGKINKK*IALTDNALTA RSLGKYGIICREDLIHEIYTVGK CFKEANNFLWPF/K/LSSPRGGM KKKTTHFVEGGDAGKREVQIN RLIRRMN
23062	53430	A	23196	3	571	GTMEGVEEKKKEVPAVPETLK KKRRNFAELKIKRLRKKFAQK MLRKARRKLIYEKAKHYHKEY RQMYRT\EIRMA\RMARK\AGN FYVVPARTQIWR\FVIR\IRGINGS EPQRFKVLQLLRPVVKIFNG/T PFVKLQQGFRFNMLRDCRSHIL AWGYPNLKSVELIYKRGYG QNQFDLHPTEKRSHPGSQ
23063	53431	A	23197	2	340	PRVRPRVRDSKMASVGEVSGP QYPVKDKKLL\EVQTGGSFPSW \ILMRGPSSPSGIFG\AFQRGLLR GTYNKY\NVKKGSDLGGFTMV L\ACYVLFSSYSFSYKHLKH\ER\ LRKYH
23064	53432	A	23198	2	48	PRVRLRC*MVDEYCGCEWGK* LNGGRVLWM
23065	53433	A	23199	123	693	QACIMREYKLVVLGSGGVGKS ALTVQFVQGIFVEKYDPTIEDS YRKQVEVDAQQCMLILD\TAG TEQFTAMRDLYMKNQGQFALV YSITAQSTFN\DLQDLREQILRV KDTDDVPMILVGNKCDLEDER VVGKEQGQNLARQWNNCAFL ESSAKSKIYVNEIFYDLVRQINR KTP\VPG\KAPQKSPSCQLL
23066	53434	A	23200	461	1422	SPHGEPLLGQCRREMVGWSLH TESPLG\QWGSQILKLQNDLL
23067	53435	A	23201	232	331	TPL*KWLRGVM\AVTVVTPQTG IIAIPDPHHEWGSTGYPRLPA

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23068	53436	A	23202	5	1223	GLDSGPESGLRAQPGLLAGKRK MSVLRRMMRVSNRSLAIFIFF SLSSSCLYFIYVAPGIANTYLFM VQARGIMLRENVKTIGHMIRLY TNKNSTLNGTDYPEGNNSDYD VQTTTYLPENFTYSPYLPCEKL PYMRGFLNVNVSEVSFDEIHQL FSKDLDIEPGGHWPKDCKPR WKVAVLIPFRNRHEHLPIFFLHL IPMLQKQRLEFAFYVVEQTGTQ PFNRAMLFNVGFKAMKDSV WDCVIFHDVDHLPENDRNYYG CGEMPRHFAAKLDKYMYILPY KEFFGGVSGLTVEQFRKINGFP NAFWG\WGGEDDDLWNRV\H YAGY\NV\TRPEGDLGKYKSIPH HHRGEVQFLGRYKLLRYSKER QYIDGLNNLIYRPKILVDRLYT NISVNLMPELAPIEDY
23069	53437	A	23203	78	495	CTFEKAPPFQLGRGRMVPAAK GGEKKTGRAINEVVTREYTINI HKRIHGVGFKRAPWALKEIR KFAMKEMGTPDVRIDTRLNKA VWAKGIRNVLYRIHVRLSRKR NEDEDSPNKLYTLVTYVTVTTF KNLQTVNVNEN
23070	53438	A	23204	138	360	KNQKRQLSGGHCADQTSVLVA RLAPLF\PTTMSDKPDMAEIEKF DKSKLKTETQEKNPSPKETT EQEKQAGKS
23071	53439	A	23205	145	728	KRQPTSAMKDPSPRSSTSPSIINE DVIINGHSHEDDNPA\EYMW GKMEGRNFNR\QIGRRELWGR KD\FLNRCFPKE\MLGEEGKEG ALNWVLFPSFEILPHQTMGPNP RTSFNDPCLSSDGSFSWEDLVV KS\NLNPNAKEFVPGGEVRKYL SRRGPLLVDVAQFPHCEGSIRR LNCKSSLGHCVTLYAIAQSFC
23072	53440	A	23206	530	707	
23073	53441	A	23207	1	515	MDFSKVPPHAAAFRAQPPAL WGLAKGSGRGAGEGGERPDRR R/PAARTGTPAWRPAGRRRLPP RSPPPAPVPVRPALPHPVRPGKE TGKTRRRRHYSRPLRGAAA AAAAAAVAQTASPSWAEGGRS GAGGSAESPAFSSPALPCPEGLL CPSAVPVPSKQSVSEVLAIF
23074	53442	A	23208	3	713	
23075	53443	A	23209	1	704	

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23076	53444	A	23210	2	1631	GLPRRPTRPPTRSGVSPWPWPGPH SGVLFPLLLHCTGSLSQAVLTQ PSSLSASPG\ASVKLTCTLRSDIN VGSPFIYWYQQKPGSPQFLLR YKSDSDNQQSGVPSRFSGSKD ASANAGILLISGLQSEVRDDYY CQAWDSSTAHS DTGRCGIVGRP PVRQCWPLLLGLAMVAHGLL RPMVAPQSGDPDPGASVGSSRS SLRSLWGRLLLQSPQRADPRC WPRGFWSEPQSLCYVFGTGTK VTVLGQPKANPTVTLFPPSSEEL QANKATLVCLISDFYPGAVTVA WKADGSPVKAGVETTKPSKQS NNKYAASSYLSLTPEQWKSHR SYSCQLQWGLGLGASQGGFLY EPVSQCVVFGGGTKLTVLGQP KAAPSVTLFPPSSEELQANKAT LVCLISDFYPGAVTVAWKADSS PVKAGVETTTPSKQSNKYAA SSYLSLTPEQWKSHRSYSCQKP NHASHGTSRMPVSAPVSGLKS CWSGTGDRSALGQMPGPCHGI PDPMQQASDSGQPKAAPLGSL CSKPSSEELSGQQGPHWCVS
23077	53445	A	23211	1	959	VFLLLYLVAMPDPAKSAPAPK KGSKKA VTKAQKKDGKKRKR SRKESYSVYVYKVLKQVHPDT GISSKAMGIMNSFVNDIFERIA GEASRLAHYNKRSTITSREIQT VRLLLPGELAKHAVFIENLLNY RKYL VKSSEKDRNYPCLPGLK SKVDICTPYCLLLPQPRHYPG KDTKEETEDFPNSPPPINREEDK RYTTVMGPCLRQA ALEGELLA CPVMEDQQANWVHEPITFNTF KEIRKSIRENGPASPFTRGLIEVI ADSSDLVASTQKLTQPKETPSA PYNDISDLTNQDSWFIFPPIWN AGETDLSNNKTT
23078	53446	A	23212	3	463	
23079	53447	A	23213	74	464	
23080	53448	A	23214	41	490	
23081	53449	A	23215	2	369	PDPAANAPAAAKPAAAKALPV FLLLLSGGAGPAHPMRAPGC*G ELGYTEQLFQFLQATAQEEGIF EYTDPKLAISAVWTFRDLGVLQ QTPSPAGPRLHLSPTFASLDNQE KLEQFIRQFICS
23082	53450	A	23216	124	301	

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23083	53451	A	23217	3	2426	PGVLSTATFRESGLSPCSKLLKHP GPRGRLQYSPPTAGQGRLENG AGHPQSTGPVATLSVAEYGTQ GGASGPARIPIGSRGCLLAGRA EASLWSSGFGMKLEAVTPFLG KYRPFVGRCCQTCTPKSWESLF HRSITDLGFCNVILVKEENTRLF SWALLRVLKLLFLNVQLHKGQ MKMVQKAAQQVGQVGTSLWL SPEQGLPLVLLSTHKTLLDGILL PFMLLSQGLGVLVAVWDSRAC SPALRALLRKLGGFLPPEASLS LDSSEGLLARAVVQAVIEQLLV SGQPLLIFLEPPGALGPRLSAL GQAWVGFVVQAVQVGIVPDAL LVPVAVTYDLVPDAPCDIDHAS APLGLWTGALAVLRSLWSRWG CSHRICSRVHLAQPFSLQEYIVS ARSCWGGRTLEQLLQPIVLGQ CTAVPDTEKEQEWTPITGPLLA LKEEDQLLVRRLSCHVLSASVG SSAVMSTAIMATLLLKFHKQKG VFLSQLLGEFSWLTEEILVRGFD VGFSGQLRSLQLHSLSLRAHV ALLRIRQGDLLVVPQPGPLTH LAQLSAELLPVFLSEAVGACAV RGLLAGRVPPQGPWELQGILL SQNELYRQILLMHLLPQDLLL LKPCQSSYCYCQEVLDRLIQCG LLVAEETPGSRPACDTGRQRSL RKLLWKPSGDFTDSDSDDFGE ADGRYFRLSQSHCPDFFLFLC
23084	53452	A	23218	169	955	ASSQLPCSMAQCCATWAPLKM RWLCSTAWSTSSLPPSWSSL QASQPSCCHATSLAPPCAGQCL ARAWPVLSFLCTCALGLLASIA MTFATQKGALLAACTFGSSELL ALAPYCPFDPTRIYSSSLCLWGI ALRCSAWAENVFAVRCAQLTH QLELRP\WWGKKQPTHMMRE NPVELVEG\RDLLSCT\SSE\PLTL CRDDVLPRP\DGQLRTLQATLL CDPGPGFLGAGLRGLKWTLLGG PSGAFQPSSPTTPAHLHLKIETL F
23085	53453	A	23219	1	344	

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23086	53454	A	23220	214	1355	FCSSWLRLADSSLSWKMFVLG LTGGIASGKSSVIQVFQQLGCA VIDVDVTARHVVQPGYPAHRR VEVFGTEVLLENGDINRKVLGD LIFNQPDRESLNAITHPEIRKE MMKETFKYFLRGYRYVILDIPL LFETKLLKYMKHTVVVYCDR DTQLARLMRRNSLNRKDAEAR INAQLSLTDKARMARHVLDNS GEWSVTKRQVILLHTELESL YLPLRFGVLTGLAAIASLLYLLT HYLLPYAYTASAIPPSGAASRG PGARCSAIRKRAPRPTSAVSPP GAPRSPARGLRADRAAGTRNL NATLPPPGPPAPPPSPSSITL HVFHQLQPDITRGREGTDFQWE KFPGRVLVADSRRALRCLAPAP TWLV
23087	53455	A	23221	2	1231	TPLFLRKGTADGSARTTVIHLG FTKGKQRCVETQAAAVAGDVG RTAAGGRVGKESGVISDDRP LPVGQSQPEGGEQEATDTVSVH ATTSQAWPGGADSKELSSKAE ERETGKDQQTELPLCLPLRDFP DSAPVMSSDSGHATESLHLASS DSKPPMPTPNEGPGSTVGHAGP PRTVKADLCTEPQLALRGLQVS LPRLHLVGVIYAEHQASGLEGC GHAGSCSPDGSPRAPGATLCLS KPLSFRTKRCLPCWLPASAPVGI PGAPVHIPGAPVCIPGAPACISN APVHIPGAPVGIPGAPVCIPGAA VCVPNTPMCIPSAPMCIPNTPVC IPNTPVCIPNTPVCIPGAAVCILG A/PRAHPWCSSCVHPGAPECYL GCGLTQADRLEPAVLDAQLQE PLFALCGQALPS
23088	53456	A	23222	2	408	
23089	53457	A	23223	62	251	

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23090	53458	A	23224	2111	3003	TQKAICMCLGLCKKIHLLSLQ CLISQIKMIMGAGWQ/SSGFTDE KETSKIKADPEKLKKLQESLLE EDSEEEGDLCRICQIAGGSPSNP LLEPCGCVGSLQFVHQECLKK WLKVKITSGADLGAVKTCMC KQGLLVLDGDFNMIEFYQKHQ QSQIKTEATVVEHKDIYNVTET QLVPEARSVLLVGAGQMLLTG ANRALNSDYSSMRPKVKAQNE LMNSGLYLVLHLLHLYEQRFAEL MRLNHNQVERERVTRVLGG LSPNVSCGVVSGVGSFQWVRG LTDLKNEASDLHAQIPAE
23091	53459	A	23225	1	594	MIAAFNPGKVDVTVTNGPFIDL NYMVYMFHYDPTHGKFHDVP MFVMGMNKHENKLTVISNAS CTTNCLDPLAKVIHDNFGIREG LMTTVHSIIATQKTVDGPSRKL WHD SHGAFQNTIPASTGAAK/I KKVVRQA/SQGPKGILGYTEH QVVPLEFKSNTRPSTFEAGAGI AVNDHFVKLISWYGNEFAYSN KVIKPM
23092	53460	A	23226	3	232	
23093	53461	A	23227	1078	2221	QQTLPAAALPCFPPTHPPEVL PTAMNTTSSAAPSLGVEFISLL AIILLSVALAVGLPGNSFVWWSI LKRMQKRSVTALMVLNLALAD LAVLLTAPFFLHFLAQGTWSFG LAGCRLCHYVCGVSMYASVLL ITAMSLDRSLAVARPFVSQKLR TKAMARRVLAGIWWLSFLLAT PVLAYRTVVPWKTNMSLCFPR YPSEGHRAFLIFEAVTGFLLPF LAVVASYSDIGRRLQARRFRRS RRTGRLVVLHILTFAAFWLPYH VVNLAEAGRALAGQAAGLGLV GKRLSLARNVLIALAFLSSSVNP VL\YACAGGG\LLRSAGVGFFA KLLEG\TGSEASSTP\RGGS LGQ TV\KSGPAALEPGPSESLTASSP LKL\NELN
23094	53462	A	23228	6125	6319	ASVVPVTSALAMCSPKSGIGDG FAVLRVEDVAQK***KAALGV ASSPAWQQTREREHVQGN SPL
23095	53463	A	23229	1	1347	

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23096	53464	A	23230	1	1124	MRECISIHVGQAGVQIGNACWE LYCLEHGIQPDGQMPSDKTIGG GDDSFNTFFSETGAGKHVPRAV FVDLEPTVVDEVRTGTyrQLFH PEQLITGKEDAASNYARGHYTI GKEIVDLVLDRIKRLFSGGTGS GFASLLMERLSVDYSKSKLEF AIYPAAPQVSTAVVEPYNSILTT HTTLEHSDCAFMVDNEAIYDIC RRNLDIERPTYTNLNLIGQIVS SITASLRFDGALNVDLTFQTN LVPPYRIHFPLATYAPVISA EKA YHEQLSVAEITNACFEPANQMV KCDPRHGKYMCCMLYRGDV V PKDVNAAIATIKTKRTIQFVD WCPTGFKV*LGDM EAFQQAAD AQNN TGLEGP HPLGR LSLFHGL
23097	53465	A	23231	1	2918	MDVYCAHESLRHTKSPEATGQ TSGQRPEALQAFWPAFGSSPVT GSSPVTEVTTKGRWSSSRQVL WDRIPLAKSRPAISNRQSQRTNI PWWESCPILNLEREQPPRFAQP GTYASRWKALEEMEKQREQ VDRNIREAKEKLEAEME AARH EHQLMLMRQDPGLALVSCMQ QQQSMRSRSPKKVFKHLYELNL TKLQSLGSRSLRWKDSPFWGE EAGGKRPLVSLALHRSPSLLL LFVPKHPSKGRPDCTVQRS
23098	53466	A	23232	1	158	
23099	53467	A	23233	1	414	LGGLKGTWGETKPAMAAEEEE DGGPEGPNRERGGAGATKTL YTGNHLFSPQWLETRPERQEC VCKAGISREKVVGESLLTFSL HFLRLKTPQICRLPV*LFLPP*GF QPF GDTGGFHFSFGVGAFPPFGF FNPSY
23100	53468	A	23234	1	663	
23101	53469	A	23235	2	667	SWAGGGFWFVGACVCVFGGTE GYVGRNKTGHGSSRRRRSGAP NVPNRERGGAGRPKTPFECNIC LETARELVLSVLANLYFWTISH QV\LE\TRPE\REQP\CKAGISR EKVVP\LYGRGSQEAPRIPRLKT PPPPRGRQ\PAPE\SRGGF\QPF DTGGFHF\SFGVGAFPF GFTTV F\NAHEPFRRGTGVDLG\QGH A\SSW\QD\SLLLFLAIFFF\WLL
23102	53470	A	23236	363	476	
23103	53471	B	23237	224	364	

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23104	53472	A	23238	1	1324	MRQRRAELLSKDKRVRTDGN KCSPSAIGKRKERGTNDWIEGD NNQESQGLNCSDTLNRDLGPN TRGFLYAGLSGLDPDPSLPTPD MSSEVLEDNLDTLISLYSGKSD SVKLLEEYADSESQASLQGRSR CWQHPPAPLSYPPAASGSQSL LQGKFPSAKPPLLGGYTCTAQR TQWALTKRSLRATRESVSRQQ GVYGLVGRKRTRHHRGVLGLL GIPSARPERPGTGSEAGPTRLPG AAVARRRRPARPVGRGLDPAP TAAQTSGPASLPPPPPPRSYGDP HQNGYPDPDPAPSASPDLPAA GDTRGSGGRRKKRRTGTARLN TPGRKA\PKQKAAAGRKGRAH QPAPRTPEPQRRRPIRPPNQTD LRHPHRRAGRPPPGGAGGTA NPSTGANGGAATARRTAGART RGARGASERAGRHGSRPASWL TATPPPGT
23105	53473	A	23239	1	433	PTRPSSPEETDGPWDPEGHPGG PLTDPPNAPVLALPPAIPGLSLS MADGSSDAAREPRPAPAPIRRR SSNYRAYATELQDLCRQLHAR VDKVEERYDIEAK\VTKNITEI ADLTQKIFDLRGKFKRPTLRRV RISADAMMQALL
23106	53474	A	23240	2	409	
23107	53475	A	23241	3	490	SSPEETVGPWDPEGHPGGPLTD PPNAPVLALPPAIPGLSLIMADG SSDAVRAAG*GVAGTPRARAR EPRPAPAPIRRRSSNYRAYATEP HAKKSKISASRKLQKLTLLQ IAKQELEREAEERRGEKGRALS TRCQPLELAGLGFELQDLCRQ LHARVDK
23108	53476	A	23242	149	846	VSAWRNGSSDAAREPRPAPAPI RRRSSNYRAYATEPHAKKSKI SASRKLQKLTLLQIAKQELE REAEERRGREGARSLAPRC\QP LELAG\LGADLPGLCCRFHA RV\DKVDEERYDIEAKVSKNITE IANLTQKIFDLRSKFKRPTLARR VRISADAMMQALLGARAKESL DLRAHLKQVKKEDPEKENREV GDWRKNIDALSGMEGRMKKW RELSLPAYCPCPEEGH
23109	53477	A	23243	1	487	
23110	53478	A	23244	80	511	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
23111	53479	A	23245	427	1417	KTMWKVEFGVRFSITRLLLEHQ PKQTMYPILPK/PPLWPEEPKTE APKQTPRAPPKPKTSRPRIPQT QPEETDQSTQEPFTTKIPRTTEL AKTTQGLEMLSCLIHNPMMHK DSTNEQIAASLQACYEQLLM YIRVTDVDSVGPNGKEAVTA PQAPTLFWLNHKAQLAKDWA GKDVNITPTFATSKKENKPPNN LQICNVSKIHQRAKVAGKPEIK DKHIQKEMPLDAIEASKINLVKI FNEFLKAWKCRLSFEYRIPENQ GHKGSFYLLVGSSRTSWLLTEK IGSSKRVLRMPMDILKTTQILL SFLWSINLTPRGKNNHLVAPAH
23112	53480	A	23246	3	1011	
23113	53481	A	23247	2	334	PIQSFFLVKKPPLRKGVYLSSK SLSRWFFKVQAN*RSQPQKAFS RLSCHC
23114	53482	A	23248	1	642	
23115	53483	A	23249	854	1150	KEDTNKWKNIPCSWLGRINIVK MAIMPKVNL*IQCHPHQATNDF SSQNWKKTTLKFIWEPKKEPAL PSQS*AKRAKLGGITLPDFQTIT YKATVTKTA
23116	53484	A	23250	1754	2393	PSNRREFGESWPETQAPGALRP LLPAPGTTPRARERPAGWPAPPM EVYIPSFYEEEDLERYTVFKI EVLMMNGRKHFEKRYSEFHAL HKKLKKCIKTPEIPSKHVRNWV PKVLEQRRQGLETYLQAVILE NEELPKLFLDFLNVRHLPSLPK AESCFSFDETESEESSKLSHQPV LLFLRDPYVLPAAADFNPVVE GVLHGIFYPHLQPR
23117	53485	A	23251	1	265	AGNRLRFQLELEFVQCLANPNY LN/WYPQCLHMLELLQYEHFR KELVNAQCAKFIDEQQILHWQ HYSRKRMLQQA\AKQQQQN NTSGK
23118	53486	A	23252	1	987	
23119	53487	A	23253	1	491	RGFRNFARVSGLLLCQAGGVV VSSFVMAAAVAMETDDAGNR LRFQLELEFVQCYANHNTLIFLP QR\GYF\KDKAFVNYLKYLLYW \KDPEYAKYLYKYPQCLHMLGA APNMEHFRKEAGWNAQCAKF IGWNRQVSTLGKHYSRKRMR LQQALAEQQQQNNTSGK

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23120	53488	A	23254	73	355	HEGQVHVLLASAHVDVAIVLG AGSMVEGEARPEQAAQH HQGI APLHLDAPGPSWTQSRSPRNRA NQNHTCSEAT*SHPEQLPQTLW ECHAPRSP
23121	53489	B	23255	1	441	
23122	53490	A	23256	528	698	HGQRFLHGPV/H/HHSYDN/PH HSLHHHRCLHHCHLHHHRHHL HHHPLHCYHHHPGQNG
23123	53491	A	23257	1	403	
23124	53492	A	23258	509	4547	LYLTTSRREEHLKSLVETQDL ASPVLRSVSICTKVEEAFRQAH VIVVLDDSTNKEVFTLEDCLRS RVPLCRLYGYLIEKNAHESVRV IVGGRTFVNLKTVLLMRYAPRI AHNIIAVALGVEGEAKAILARK LKTAPSYIKDVIIWGNISGNNYV DLRKTRVYRYESAIWGPHYSR PVLNLI FDSEWVKREFVAILKN LTTTGRQFGGILAAHSIATTLKY WYHGSPPEIVSLGILSEGQFGI PKGIVFSMPV
23125	53493	A	23259	56	290	
23126	53494	A	23260	468	993	VLLACFWPGSDFWPRSRRKTY GTAPQSCYSFYVALDCGGVSRL VIFVSWRNPQVAPSAHQNRPS RNPVSRPPNTQRVARRKHYAL ADGYTERRWTNAPCRAESSFPP NCPSAAPIPDSDYDK*PSRATLFT SHLTVEAFPVWSYLYPGETPRL HPRAHTRTVPAAIRYPDRQTPN GLRGANTMHSQMDTLNGDGR THLAGQRARSPTARPQRQYRI HTTSDLPLGLVRKYASGCCRLIW YCCAWIERALSQVGGGVFGD PLSEGQAECDHGST
23127	53495	A	23261	1	3114	
23128	53496	A	23262	3	401	TSSLISLGKSGRYIVFLRRSVGI QSPSAVATVRLLLAGSDRRFAA GSAGCAVLSRAERS*EPGCCYR IRRSFRLRAGSIGNRDKPVAW PDTGSGDNTEVYFRAHQAGILP DTVLAGPAQRVAVSGGTPVDW
23129	53497	A	23263	2874	3062	

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23130	53498	A	23264	2766	3323	MPDLVEGREKSDKGAQPQPR TQSRARTNGSGVRILHSLWRIIG IPLLLGYSLVCSRVLACFWPG SDFWPRSRRKTYGTAPQSCYSF YVALDCGGVSRLVIFVSWRNP QVAPSAHQNRPSRNPVSRPPN TQRVARRKHYALADGYTERR WTDAPCRAESSFPNCPL*RQY RIHIVDASVCGP
23131	53499	A	23265	968	1440	
23132	53500	A	23266	3	640	LSVVRSRIHMGVGVGVGCPVR YRNQDDHELQITHGNKILCGIV CDKGAQPQPRTQSRARTNGSG VRILHSLWRIIGIPLLLGYSLVCS RVLLACFWPGSDFWPRSRRKT YGTVPQSCYSFYVALDCGGVS RLVIFVSWRNPQVAPSAHQNR PRRNPVSRPPNTQRVARRKHYA PADGYTERRWTIAPCRAESSFP PNCPSAAPIPDSYDK
23133	53501	A	23267	1	3140	MVYKMRYRSQHPYSIKEKQMK SEVLSVKEKIGYGMGDAASHII FDNVMLYMMFFYTDIFGIPAGF VGTMFLVARALDAISDPCMGL LADRTRSRWGKFRPWVLFGL PFGIVCVLAYSTPDLSMNGKMI YAAITYTLTLLYT VVNIPYCA LGGVITNDPTQRISLQSWRFVL ATAGGMLSTVLMMPVLNLIIG DNKPLGFQGDLSPMFSTPEEIA RPGPYENDVHVVGASSLAAGH KTLIPELVRSAEQHMGR
23134	53502	A	23268	750	1340	ILHAPAPPFSASASHEQPEWSD KGAQPQPRTQSRARTNGSGVR ILHSLWRIIGIPLLLGYSLVCSR VLLACFWPGSDFWPRSRRKTYG TAPQSCYSFYVALDCGGVSRLV IFVSWRNPQVAPSAHQNRPSR NPVSRPPNTQRVARRKHYALA DGYTERRWTNAPCRAESSFPN CPFAAPIPDSYDK*PFRIVS
23135	53503	A	23269	93	699	RASVQQKKLSTDDKGAQPQPR TQSRARTNGSGVRILHSLWRII GIPLLLGYSLVCSRVLACFWP GSDFWPRSRRKTYGTAPQSCYS FYVALDCGGVSRSYLYPGET PRVAPSAHQNRPSRKPG\TRPP NTQRVARRKHYALADGYTER\ SATNAPCRAESSFPPELPVPQVP NTGFIRQVTFRDCFVNTPQAAA SGFW

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23136	53504	A	23270	1000	1530	QRYSDNPPNDKGAQPQRTQSR SARTNGSGVRILHSLWRIIGIPL LLGYSLVCSRVLACFWPGSDF WPRSRRKTYGTAPQSCSYFYV ALDCGGVSRLVIFVSWRNPQV AP TSAHQNRPSRNPVSRPPNTQ RVARRKHYALADGYTERRWT NAPCRA/VEFPNCPWEAQYRI
23137	53505	A	23271	242	711	LKQKRDKEDRSSRVSAVLLIK/ HRRPLPLPIGLKACHCSCTAKC LGGCESPRKGGQLLIFEGHVKI DLEIFTKSLWLTRQLIVKKETEK AVKHASNICIMRTGLTFQSHKIE DGLFGLLVIA TEAEWSYVCQST NPVDVYPLTAVPACCIISASDVP
23138	53506	A	23272	2	459	CVNSQIGRGHKITTYFSPRKS RKGMAQSQGWVKRYIKAFCK GFFVAVPVA VTFLDRVACVAR VEGASMQPSLNP GGSQSSDVVL LNHWKVRNFEVHRGDIVSLVS AKNPEQKIIKR VIALEGDIVRFP *DFCMPMPHISC GPQSAGR NW
23139	53507	A	23273	1	474	
23140	53508	A	23274	358	948	PLTPFSPRKSGRKGMAQSQGW VKRYIKAFCKGFFVAVPVA VT LDRVACVARVEGASMQPSLNP GGEPV/ASDVLLNHWKVTEF/ SEVHRGDIVFIGAPKNPEQKIIK RVICSLKGDIFQNHRTQKP DVK VPRGSHLGLEDHSDTVFDS NSFGPVS LGLLHAHA THILWPP ERWQKLESVLPPE RLP GTERRG MTA
23141	53509	A	23275	90	664	NKYRLQSPPR LALWDRASDPP APPEDPETAPAMEEDQELERKI SGLKT\SMVEG\ERKTTLELVQ AAG\TDRP\CVTFVLHEEDHTLG \NFLRY\MIMKNP\EKVEFCGYT YG/HPSFQRAKLNLP SFRFGYP FPAVEPISREALN ELMNV C\QP CAFTSFRASIKDYKESKSKQEM ESTFLVLLWQFYKGGTVL
23142	53510	C	23276	108	320	
23143	53511	B	23277	446	625	
23144	53512	A	23278	1	3042	
23145	53513	A	23279	1	3156	

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23146	53514	A	23280	518	2076	QQR*MCQNLMT\QNQRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPYAERPS\HVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMGLDPND VTFTYSHFAVPQAKGNV VITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQGQLTW LQVAKRAGLGGGQSGRTVLRE RVRIEIASTHIALAVECVSVRV WKVPRLPSRQKYAKHASQLVS NQKSEEEYMKTFNISQQDLEL VEVATEKITMLYEDNKHVGA AIRTKTGEIISAVHIEAYIGRVTV CAEAIAIGSAVSNGQKDFDTIV AVRHPYSDEVDRSIRVIPTYGT DEWEQWWNAFNEENLFCSEE MPSSDDEATADSQHSTPPKKKR KYIYVLVIAITMVMRWFQYING
23147	53515	A	23281	299	457	
23148	53516	A	23282	584	1185	QQR*MCQNLMT\QNQRSGR SQNDF*RRRKNISERSAVYR*R QLYIRRPYAERPS\HVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTSEKSNEAADHFKHVPQAKG NNVITSYMTNRGFFEDKKATF APSFLMNIKGNKTSVVKNSILE QGQLTVN
23149	53517	A	23283	1	3618	
23150	53518	A	23284	191	819	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV

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23151	53519	A	23285	2	2556	WRKIYQAN/GKTKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSYTIIMGDFN TPLSTLDRSMRQKVNKNTQEL NSALHQADLIDIYRTLHPKSTEC TFFSAPHHMYSKIDHIVGCKAL LSKFKRTEIITNCLSDHSAIKLEL RIKKLTQNCSTTWKLNLLLND YWVHNEMKAEIKMFFETNENK DTTYQNLWDTFKAVCRGKFIA LNAHKRKQERSKIDTLTSOLKE LEKQEQTHSKASRRQEITKVRA ELKEIETQKTLQKINEFRSWFFE RINTIDRPLARLIKKKREKNQID AIKNDKGDITTDPTETQTTIREY YKHL YANKLENLEEMDKFLDT YTLPRLNQEEVESLNRPI TGSGI VAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLKL FQSIEEEGI LPNSFYEASIIIPKLGRDIAKKE NFRPISLMNIDAKILNKILAHRI QQHIKKLIHHDQVGFIPGMQG WDIRKSINVIQHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLVLVLELVRAIRQEKEIKCIQL GKEEVKLSL FADDMIVYVENPI VSAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKSIKYLGIQLTRHVKD LFKDNYKPALNEIKEDTNKWK NIPCSWIGRINIVKELEKTTLNFI
23152	53520	A	23286	1	3087	
23153	53521	A	23287	1	741	MLGKKKPVCEVGGDSGVPKKE FQEGRQVL FKLWRGQANKVG DNSIDSWKNAGRVFKDSDKFD ANDPILKDQTQEWSGSATFTSD GKIRLFYTDYSGKH YGKQSLTT AQVKVSKS/V*HTQNQRSGRSQ NDF*RRRKNIS*RSAYVR*RQL YIRRQPYAERPSHVEDKGHKY LVFEANTGTENGYQGEESLFNK A Y YGGGTNFFRKESQKLQQSA KKRDAELANGALGIIELNNDYT LKKVVKPLITSN

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23154	53522	A	23288	849	1688	QQR*MCQNLMT\QNQPSGR SQNDF*RRRKNISERSAVYR*R QLYIRRQPYAERPS\HVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGHIENND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFDSRGSK MTIDGINSNDIYMLGYVNSLT GPYKPLNKTGLVLQMGLDPND VTFTYSHFAVPQAKGNNVVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEPGQLAV
23155	53523	A	23289	1	3171	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLQRLDLSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVHNEMKTEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLKELEKQEQRHSPSRQE ITKMRAELKEIETQ
23156	53524	A	23290	1	3255	
23157	53525	A	23291	1	3924	
23158	53526	A	23292	1	3139	
23159	53527	A	23293	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRLDLSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKKRQERSKIDTLTSQ LELEKQEQT HSKASRRQEITKIR AELKEIETQ
23160	53528	B	23294	1	3127	
23161	53529	A	23295	1	3325	
23162	53530	A	23296	1	3145	

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23163	53531	A	23297	191	819	VNVTSGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23164	53532	A	23298	1	3352	
23165	53533	A	23299	1841	2679	QQR*MCQNLMT\QNQRSGR SQNDF*RRRNISERSAVYR*R QLYIRRPYAERPSHVEDKGGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGHIENND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFTDSRGSK MTIDGINSNDIYMLGYVSNLT GPYKPLNKTGLVLQMGLDPND VTFTYSHFAVPQAKGNNVVITS YMTNRGFFEDKKATFAPSFLM NIKGNKTSVVKNSILEQGLTV
23166	53534	A	23300	1207	1533	YVHCKPSGWTVRTFDKPRKRFI AFFIAGILFRAIKNHFLPRETLQ CLPYILTGFRRGQSEYFSFSNM DLADTVMF*GAIRFSDLVNEQ IQHTFLIPGETICRLSEVV
23167	53535	A	23301	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFPSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
23168	53536	A	23302	1	3095	
23169	53537	A	23303	2	2678	

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23170	53538	A	23304	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLQDRDLSDHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKEIETQ
23171	53539	B	23305	1	2293	
23172	53540	A	23306	1	3810	
23173	53541	A	23307	255	1215	CVGQLAAAKR*RNSS*IQRLSR CVCSCGKPERR**HINLHVLSK GRRQLN/QTAGKTRAVSLKTAI SSTPTIRS*KIRKNGPVLQPLH LTEKSVYSTLTIPTKAINTLYSK PTREQKTDTKAKNLYLTKRTT AAARTSSVKKARSFSRALKNA MLS*RTAPSVS*S*IMITH*KK** SR/CITSNTVTDEIERANVFKN GKWYLFDTDSRGSKMTIDGINSN DINMLGYVSNLTGPYKPLNKT GLVLQMGLDPNDVTLTNSHFA VPQAKGNVVTISYMTNRGFF EDKKATFAPSFLMNIKGNKTSV VKNSILEQGQLTVN
23174	53542	A	23308	1	4539	
23175	53543	A	23309	1	3229	
23176	53544	B	23310	1	3552	
23177	53545	A	23311	1	3139	
23178	53546	A	23312	1	3057	
23179	53547	A	23313	1	3215	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRLSR CDQLEERVSADEMNEMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NLTLDIIQENFPNLARQANVQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKDRSTRQ KVNKDTQELNSA

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23180	53548	A	23314	1	1921	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKA VCRGK FIPLNAHKRKQERSKIDTLTSQ KELEKQEQTN\HSKASRRQEITK IRAELEIETQKTL*KINESRSW FFERINKIDRLARLIKKKREKN QIDAIKNDKGDITTDPTIEQTIR EYCKHLYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPTG AEIVAIINSLPTKKSPGPDGFTA KFYQRYKEELVPFLLKLFQSIEK EGILPNSFYEASIIIPKPRDIT KKENFRPISLMNIDAKILNKKL AKRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVIQHINRAKD KNHMIHSIDAEKAFDKIQPFML KTLNKL\GIKYLGIHLTRDVKDL FKENYKPLLKEIKEDTNKWNI PCSWVGRINIVKMAILPKMCL* RRWTPCLLLTAAASLNRE*ERL VQPLLWRQMYCGPRHCRQVPQ HRRNLNWSPSLRLS
23181	53549	B	23315	1	2907	
23182	53550	A	23316	584	1278	QQR*MCQNLMT\QNQRSGR SQNDF*RRRNISERSAVYR*R QLYIRRQPYAERPSHVEDKGH KYLVEANTGTENGYQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIELNND YTLKKVMKPLITSNTVTDEIER ANVFKMNGKWYLFTDSRGSK MTIDVPQAKGNNVVITSYMTN RGFFEDKKATFAPSFLMNIKGN KTSVVKNSILEQGQLTVN
23183	53551	A	23317	1	3345	

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23184	53552	A	23318	2	3366	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHIYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSDHSAIKLELM IKNLTQNHSTIWKLNNLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKA VCRGKFIAL NAHKRK\QER
23185	53553	A	23319	1	2611	MGDFNTPLSTLDRSTRQKANK DTQELNSALHQVDLIDIYRTLH PKSTEYTTFFSAPHHTYSTTDHIL GSKALLSKCRRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLNDYGVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKA V RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEKETQKTLQK\INES RSWFFERINKIDRPLARLIKKKR EKNQIDAINDKGDITDPTIEIQ TTIREYYKHLIYANKLENLEEM DKFLHTYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAEDQRYKEELVPFLKLFQ SIEKEGILPNSFYEASILIRKPGR DTTKKENFRPISLMNTDAKILN KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNHKSINVIQHINRA KDKNHMIISIDAEKAFDKIQPF MLKTLKLGIDGTYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKLISNFSKVSGYKINVQKS QAFLYTNNRQTESQIMSQLPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTFKFIWN QKRARITKSILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN

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23186	53554	A	23320	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQDLIDIYRTLHP KSTEYTFFSAPHHTYISKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNRSTTWKLNN LLLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
23187	53555	A	23321	911	1539	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23188	53556	A	23322	191	820	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFNMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSRVGFEYKVFMAFVFNVV RVSQRMVVAGCIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
23189	53557	A	23323	965	5050	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLLNDYWVHNEMKAE IKMFFETKENKIDTTYQNLWD AFKAVCRGKFIALNAHKRKQE RSKIDTLTSQLKELEKQEQTHS KASRRQEITKIRAELEIETQKT LQKINESRSWFFERINKIDRPLA RLIKKKREENQ
23190	53558	A	23324	1	2787	
23191	53559	A	23325	1	902	
23192	53560	A	23326	1	3640	

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23193	53561	A	23327	1	3686	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRSLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLKNTLQDIIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIIVRFTKVE
23194	53562	A	23328	1	3433	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKRE KNQIDAIKNDK
23195	53563	A	23329	1	3070	MEGEMNMKREGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKDRSTRQKVNKDTQE LNSALHQADLIDIYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDA

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23196	53564	A	23330	3	2372	TTNCLSDHSAIKLELRIKKLTEN HTTTWKLNNLLNDYWVDNE MKAIEKMFFEINEKK\DTTSQNL WDTFKA VCRGKLI ALNAHKRK QERSKIDTLTSQKK\LEKQEQR NSKASRKQEITKIRAE LKEIETQ KKT LQKINESRSWFF EKINKIDG PLARLIKKKREKNQVDAIKNDK GDIITDPTMQTTIREYYKYLY ANKLENLEEMDKFLNTYTLQR LNQEGIESLNR PITGSEIAIINSL PTKKSPGPDGFTAKFYQRYKEE LVYPEPRSESECLSNIREFLRGC GASLRLESIREDRNGRSQKTVH TEGDMNMNIKKIVKQATVLT TTALLAGGATQAFAKENNQKA YKETYGVSHITRHDMLQIPKQQ QNEKYQVPQFDQSTIKNIESAK GLDVWDSWPLQNADGTVAEY NGYHVVFALAGSPKDADDTSI YMFYQKVGDN SIDS WKNAGR VFKDSDKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSG KH YGKQSLTTAQVNVSKSDDT L KINGVEDHKTIFDGDGKTYQN VQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENG YQGEESLFNKAYYGGGTNFFR KESQKLQQSAKKRDAELANGA LGIIELNNDYTLKKVMKPLITSN TVTDEIERANVFKMNGKWYLF TDSRGSKMTIDGINSNDIYMLG
23197	53565	A	23331	2	2987	APRFIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVHKDT QELNSALHQADLIDIYRTLHPK STEYTCFSAPHHTYSKIDHIVGS KALLSKCKRSEITNCLSDHSAI KLELRIKKLTQNRSTTWKLNNL LLNDYWVHNEMKAEIRMFET NENKDTTYQNLWDTFKA VCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQT HSKASRRQEIT KIRAE LKEIETQKTL\QKINE\SR SWFF\ERINK
23198	53566	A	23332	339	701	PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFI AFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNDLADTVMFL*G AIRFSDLVNEQIQHTFLIPGETIC RLSEVV
23199	53567	A	23333	190	502	

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23200	53568	A	23334	4472	8032	KKSGNNRLMRVHGKRLWQ KQGVCEVEIQARESARDGTD REDAESPHAETVPRGTRTEILT LWASRDRPASACGVTPKGST THPGGMDRVCGVDTAVLHWM KQVQGISNLEVETGPRRRDMD EAGSRHSQQTNIGTENQTPHVL THKWQLNRNSACDKLHKPHSV PGGVAAGDVGGKTISNPGVCAI EYQVDGSPHIWEDVNKGVIIEE DRAPLMERSSSPAMEQSWMEN DFDELREEGFRRSNYSELRED
23201	53569	A	23335	1	2374	MVSISDLVICPPRHPKVLGLQGP PGLDSISDPSAGAGFLDWGEIG MPGPGRAGHQALCKCDCQCLE KTTTKAPGKMPKSTRSGPVRV RLADGPNRCAGRLECGMPDAG EQCVMTTGTSGRHCGLLGTGL WKGYTDLTIIPPGGTPPQERTC QGDYHSGGTWTHSPLETTTRP GSSSPAIRRLPAQMLLLPARPPH PRSSSPEAMDPPPKAPPFKAE GPSSTPSSAAGPRPRLGRHLLI DAN/GVYPYTYTVQLEEEPRGP PQREAPPGEPPRGYSCPECA RVFASPLRLQSHRVSHSDLKPF TCGACGKAFKRSSHLSRHRATH RARAGPPHTCPLCPRRFQDAAE LAQHSWGTPRGPLLAAACNCE VARGRLESPGPERLLHGYGGRE EEGGWGRAAGGLDRVEGFSS KAHHYLLIDTQGVPTYVLVTRS HRGSQGPVGLQARKVLQLPV LKGLRVHVHLQRHSITHSEVPQ DFAGSLDSFQTPGESLRLVFRA LDTTQSSRISKAEPCLKEEPLSL GDLPYMHTTLCFCRRRASPGP GTLQRGALAWPDWASPRALPV PSLSSTTRSPAAPLFAVPLSGRT TQAMAFDGIIFQQSQRSAGLT TTSRFLACQRPLRLCAWWASRS PRCTLRRPVGLRPGVHPRPRLV YRDLKPENVMASGQPRDRPQP WFAWPPRPTRFCGGCWTLTPK

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23202	53570	A	23336	853	1602	PGAAWSRPDLRGCTEPQPALR MLVLASPCPQPLAFSSVETMEG PPRRTCRSPEPGPSSSIGSPQASS PPRPNHYLLIDTQGVPIYTVAW LDEESQREPGASGAPGQKKCYS CPVCSRVEYMSYLQRHFRFSH SEVKPFE\CDICGK\AFKRSQHL/ SARHHSIHLGGWVGGPACRFC PRRFARDAGELAQHSRVHSGER PVSVSTLPSPLYGAETHAETHA VEASHEAGLPGAPGTHRTLQG ALDSCPDTW
23203	53571	A	23337	1	1144	MGHHLMDKLVALLGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVIRKHFANPLSALFLQGGI ELFAAIAEIHITVAERNHAITQI RLEAQTIFDSLKEWHNAIRKSL DYEALQAFEFVVGATDRGFPAL SSEALVRVLVLDANDNSPFVLY PLQNGSAPCTELVPRAAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLVKDN GEPPRSATATLQVLLVDGFSQP YLPLPRAAPAQAQADSLTVYL VVALASVSSLFLFSVLLFVAVR\ LCRRSRAAPVGRCSVPECPPFG HLVDVSGTGTLSQSYQYEVCLT GGSGANEFKFLKPVIPNLLSRDS
23204	53572	A	23338	1	1260	MVCYIQENLPFLKPSVENFYIL ITEGALDREIRAENITITVTDL GTPRLKTEHNITVLVSDVNDNA PAFTQTSYTLFVRENNSPALHIG SVSATDRDSGTNAQVTYSLLPP QDPHLPLASLV SINADNGHLFA LRSLDYEALQAFEFVVGATDRG SPALSREALVRVLVLDANDNL\ PFVLYPLQNGSAPCTELVPRAA EPGYLVTKVVAVDGDSGQNA WLSYQLLKATEPGLFGVWAHN GEVRTARLLSERDAAKHRLVV LVKDNGEPPRSATATLHVLLVD GFSQPYLPLPEAAPAQAEAD LLTVYLVVALASVSSLFLLSVL LFVAVRLC\RRSRAASVGRCSM PEGPPGRLVD\VSGTGTLFQSY QYEVCLTGGSETGEFKFLKPTP HLPPHRGGKEIENSTLPNSFGF

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23205	53573	A	23339	123	5794	SSSDSGSLKGACTEVKMEPAGE RFPEQRQVLILLLEVTLAGW EPRRYSVMEETERGSFVANLAN DLGLGVGELAERGARVVSEDN EQGLQLDLQTGQLILNEKLDRE KLCGPTEPCIMHFQVLLKKPLE VFRAELLVTDINDHSPEFPERE MTLKIPETSSLGTVFPLKKARD LDVGSNNVQNYNISPNSHFHVS TRTRGDGRKYPELVLDTELDRE EQAELRLTLTAVDGGSPPRSGT VQILILVLDANDNA
23206	53574	C	23340	20	313	
23207	53575	A	23341	119	247	RSRCISASPRRPASFRKSIPEEED ESLNI*KGQVSILFFYIK
23208	53576	B	23342	55	288	
23209	53577	A	23343	1	3576	MAFLFEFSDLVSLLSIGTMLAY SLVAFSVLVRLRYQPDENFSKNE KPKEEVVEMNSVPAESPACVP EASSTPASLWSPVSTIPTRWGR IVYGCAFLLVLLSMLCLVLAH WPKRLFSGELIYIAAAVLLLVLI VGFTFTVWRQPQSNTPLYFKPP HISTSQNLSLPEHPMEYLLRTGI EPDVRGVLTVNALPAGPPVACS PLVSISAHVYLMQMATTETWA QCGVWMLIALECPNLKLLKPP WLHMLAMTMYA

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23210	53578	A	23344	3	1762	SVRPGPGHVVRV\RFFSLSPPLR PWPLCPAARRTMGSILSRRIAG VEDIDIQANSAYRYPPKSGNYF ASHFFMGGEKFDTPHPEGHLFG ENMDLNFLGSRPSQFPYVTPAP HEPVKTLRSLVNIRKDSLRLVR YKDDADSPTEDGDKPRVLYSL EFTFDADARVAITIYCQASEEFL NGRAVYSPKSPSLQSETVHYKR GVSQQVSLPSFKIDFSEWKDDE LNFDLDRGVFPVVIQAVVDEG/ DSVVEVTGHAHVLLAGFEKHM DGSFSVKPLKQKQIVDRVSYLL QEIYGIENKNNQETKPSDDENS DNSNECVVCLSDLRDTLILPCR HLCLCTSCADTLRYQANNCPIC RLPFRALLQIRAVRKKPGALSP VSFSPVLAQSLEHDEHSCPFKK SKPHPASLASKKPKRETNSDSV PPGYEPISLLEALNGLRAVSPAI PSAPLYEEITYSGISDGLSQASC PLAAIDHILDSSRQKGRPQSKAP DSTLRSPSPPIHEEDEEKLSEDV DAPPPLGGAEALALRESSSPESFI TEEVDESSPQQGTRAASIENVL QDSSPEHCGRGPPADIYLPALG
23211	53579	A	23345	35	3134	RPREGPTWPQLPGSSPRRLFPW SPGSSSRGLFPWSPGSSSRGLFP WSPGSSSRGLFPWSPGSSSRGLF PWSPGSSSRGLFPWSPGSSSRGL FPWSPGSSSRGLFPWSPGGSSR GSSRGHPGPPPGGSSRGHPGPPP GALPVVTRVLLPGLFPWSPGSS SRGLFPWSPGSSSRGLFPWSPGS SSRGLFPWSPGSSSRGSSRGHPG PPGALPVVTRVLLPGLFPWSP GSSSR/RTLPPVTRLLSGTLFPV VTRVLL
23212	53580	A	23346	3	91	
23213	53581	A	23347	3	174	
23214	53582	A	23348	3	360	
23215	53583	B	23349	158	368	

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23216	53584	A	23350	3786	4928	PPPARTRPCASLTPEKAKWWRS KPGLTRAPARCGLSSPQTGSCS APASAG*VSGNSRSGTRRGLRP TRG*GPCGPSSRARAISSPRAS/L RMSQRELGLWDPNNFEEPVAL QEMDTSNGVLLPFYDPDSSIVY LCGKVLTAGQGEQGTGWRCG GPCPGAPLNRLILQGDSSIRYFEI TDEPPFVHYLNTFSSKEPQRGM GFMPKRGLDVSKCEIARFYKLH ERKCEPIIMTVPRKSDLFQDDL YPDTPGPEPALEADEWLSGQD AEPVLISLRDGYVPPKHRELRV TKRNILDVRPPSGPRRSQSASDA PLSVRSALLHSGPIYISPNRPYTT RPLCPPPQQHTLETLL EEIKAL RERVQAQEQRITALENMLCELV
23217	53585	A	23351	1	1898	MSRKGPRAEVCADCSAPVGPD FALAISELVSPDIFMQSHSENAIS VKEIVTEIESISQGVGQIQLKGDI LPNPCHTPKKNSIHELLLERAQT PENKPGHMEQDEDSCTAQPEL AKDSGMCNPEGCLTTHSSIADL EEGEQLRGNKSSRAQGCTQNS KNDSSVADLAPKGKSDEAPPEH SFVLKEPEMSKGGKYSYSGSEA GSLSHSEQNATVPAPRVLEFDH LPDPQEGPGPEASNGLKVSQKS EGSQPSSSRSPLEFLKEAGVPNQ TLSSGTPDPYFMALLGPKLNSR RPHLHPVSHTLDLGNPPLPQQ FAKCQRGRKGPEGKYPLHYLV WHNRHRELEKEVRAGQTLITQ TLSQANPTAITAEEYFNPNFELG NRDMGRPMELTTKTQKFKAKL WLCEEHPLSLCEQVAPIIDLMA VSNALFAKLRFITLQIPFHILN ARITFGNLNGCDEPVPSVRGSPS SETPSPGSDSSSVSSSSSTSEAPR ENACPSALPGVASCRGCEISPAL FEAPRGYSMMGGQREAA TRDD DDDLLQFAIQSSLLEAGSEYDQ VTIWEALTNSKPGTHPMSYE/R SPTGQGQVPAATCSG/R YDEQL RLAMELSAQEQEERRRRARQE EEELERILRLSLTEQ
23218	53586	A	23352	341	711	

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23219	53587	A	23353	57	719	TSDLMAEIIQERIEDRLPELEQL ERIGLFSHAEIKAIKKASDLEY KIQRRTLFKEDFINYVQRIGYSF KKDEIENSIVHRVQGVFQRASA KWKDDVQLWLSYVAFCKKWA TKTRLSKVFSAMLAIHSNKPAL WIMAAKWEMEDRLSSESARQL FLRALRFHPECPKLYKEYFRM ELMHAGKTGGRRRKNLKKPV WMWRILIILKKSLRASWHGSST
23220	53588	A	23354	27	352	TESVVTIMSLLNPKSEMTPEE\ REEEFNTGPLSVLTQSVKNNT QVLINCRNNKLLGRVKAFDR HCNMVLE\NVKEMLTGEG/DRYI SKMFL\AGDPVIVVLRNPLIAGK
23221	53589	A	23355	32	575	STRLDLPKCWDYRSLFNKPKS EMTP\EELQKREEVEEFNT\GPTP LCLTQSVKNNTQSAQSTC\RNN KKLPGAA*RPFDRASPPCSPPGT CNMVL\ENVK\EMWT*GTQEV GKGKEGSSKPVNKDRLTSSKM FPGGGGFSSFVPCGNPFHSAG QIRGPPVLFDKNSHPLVLLKTA CHLVFENY
23222	53590	A	23356	103	713	VTSGCGKKKVWLDPNET\NEIA NANFRSADPGRLIKDGLIIRKPV TVHSRARLPEKTPLARCKGHG TLGIGKRKGTANA\RMPKEGHH GMRRMRILAPACSRRYRESKKI D\RHMYHSLYLKVKG\NVFKNK ADFSWEHIIHKAEGRARPRKEAS WLDQAEA\RRSKDQKGHGKRR EERLPGQRKEEINQRLYSKEGR RPRNKNLTL
23223	53591	A	23357	1	2847	
23224	53592	A	23358	1	2823	
23225	53593	A	23359	3	2858	AMFGFQRRGLGTPRLQLWLL LEFWEVSGQLHYVSSEEAKH GTFVGRIAQDLGLELAELVQRL FRVASKTHGDLLEVNLQNGILF VNSRIDREELCGQSAECISILEV IVDRPLQVFHVNVVVKDINDNP PVFSLREQLLIAESKQSDSRFP LEGASDADIEENALLTYRLSKN EYFSLDSPTNGKQIKRLSLILKK SLDREKTPELNLLLTATDGGKP ELTGTVRLLVQVLDVNDNDPE FDKSEYKVSLMEN

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23226	53594	A	23360	194	931	NSPVVPVMASGQFVNKLQEEVI CPICLDILQKPVTIDCGHNFCPQ CITQIGETSCGFFKCPLCKTSVR\ RDAIRFNSAVAEIWWEKIQALQ ASEVQSKRK\EAT\CPRHQEMF HYFCEDDGKFLCFVCRESKDH KSHNVSLIEEAAQNYQGQIQEQ IQVLQQKEKETVQVKAQGVHR VDVFTDQVEHEKQRILTEFELL HQVLEEEKNFLLSRIYWLGHEG TEAGKHVVEIPLMPTVERSQEA
23227	53595	A	23361	2	381	AINWTSARPVSCWDP\CPPSQ VVCLAGLPP*RVCQNPVKGP\N CPLAHTSEPTGHCLL*TRGMCF PSLCGQLCP*SGPPDCPSRALH HTGFPCPVALLVAESQVRARAC GPEPHRAGRASRWCLHAG
23228	53596	A	23362	213	574	PQTHGTGNHSEGRQPITRSPEKP EP\CPSKRAPQTQQPWPAPSLC PPALGPCKGTRRPRVQVHRPTS SQKCPLPAWFHHLPLWPTSAAR SSSTETPTGQQMRKL RHPAAPR SANALSLGE
23229	53597	A	23363	21	456	
23230	53598	A	23364	2	98	
23231	53599	A	23365	64	241	PWPLASNPRGCLP*PSTLN*PTP SSQPGMSLDLDRHPP*TRETAS GIGGQRP GSDPARTPHFISQTQ
23232	53600	A	23366	209	353	

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23233	53601	A	23367	1766	3292	SSCPTTRVLIMKGAGHPCYLDK PEEWHTGLLDLQGLQLWLMH MQQLMSLAVVSGRLSRGQCGT ERPSRRAAAAAAAGQPQRGHF QHIEERLETNVQNCQSPDTLCP THCSPVLNEPCPEVSVVAVAPA SPDRMSGSDGGLEEEPELSITLT LRMLMHGKEVGSIIKKGETV KRIREQSSARITISEGSCPERITTI TGSTAAVFHAVSMIAFKLDEDL CAAPANGGNVSRPPVTLRLVIP ASQCGSLIGKAGTKIKEIRETTG AQVQVAGDLLPNSTERA VTVS GVPDAIILCVRQICAVILEGFSV QGQYGAVTPAEVTKLQQLSSH AVPFATPSVVPGLDPTQTSSQ EFLVPNDVSRGWDGWRLIGCVI GRQG\TKINEIRQMSGAHIKIGN Q\AEGAGERHV\TITGSPVSIALA QYLITACLETAKSTSGGTPSSAP ADLPAPFSPPLTALPTASPLAC WAHPMPSPSPTLIGFKAHALLG FTTCFPRAAAGLGGHLHRQDGSS
23234	53602	B	23368	1	363	
23235	53603	A	23369	486	947	LDGAGLLAPVKAHLQKKGPRL GTRGCAMPRLGSTPFLKGQCL ANSRNTLEAVSLTESSASRVPP APVLGSRRPHSPSPWP/P/YTTP VPPPPRMALVPPNMHGQGTVG LTSVPLACTVAMLGSYKQAGA FGPLANCYGGGLGHAQCWGQEF CPTQCP
23236	53604	A	23370	38	680	GSRLRRLQAAAARPALPLPLPP WEWKHLPHVPEAKWWLTAR HSAAYRADPLRVSSRDKLTEM AASSQGNFEGNFESDLAEFAK KQPWWRKLFQGQESGPSAEKYS VATQLFIGGVTGWCTGFIFQKV GKLAATAVGGGFFLLQLANHT GYIKVDWQRVEKDMKKAKEQ LKIRKSNQIPTEVRSKAEVVVSF VKKNVLVTGGFFGGFLLGMAS
23237	53605	C	23371	30	200	
23238	53606	A	23372	14	161	

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23239	53607	A	23373	69	715	APALPGCEHMMMAIRELKVCLL GDTGVGKSSIVWRFVQDHFHDH NISPTIG\ASFMTKTVP\WENDFT KFLIWDTAGQERFSFIGLPLYYS RLQLAAVYSCYGYLPSRDFIFIT LKE\WV\KRLKELGPE\NIVMAI AGNKCDLSD\REVPPGMLKE Y\AESIGAIVVETSAKNAINIEE LFQGIS\RQIPPLDPPMKNKGKQW DHQKLRSQPMQASRRCC
23240	53608	A	23374	3	293	VTSTMAYRAQGQKV\QKVMV QPINLIFRYLQNRSRIQVWLYEQ VNMRIEGCIIGFDEYMNVLVDD AEEIHSKTKSRKQLGRIMLKGD NITLLQSVSN
23241	53609	A	23375	3	393	HESCSQRQRAGCALCENSHPW RSRGPVQKSAEGLWCQPICRT SSSRYL\QNRIAGFQVWLYEQV NM\RIEGCIIGF\DEYVNLVDD AEEIHSKTKSRK\QLGRIMLK\G DNITLLQTCLPPRMVHGSGEIV
23242	53610	C	23376	129	425	
23243	53611	A	23377	470	635	ENSSSHHIKPFSSGCSIHGFSGH INVTSVTIL*PIKSCHIRCHF*CA QYMVADN
23244	53612	A	23378	71	566	PLFPPCLSPVVAGWARGHMLG QSHQQVAAPLKHRPITPTCLCQ KCLSLIKTKFLNAYITVSEEVA LKHAEESEKRYKNGQSLGDLD GIPIAEKDNFSTSGIETT\CASNM LKGYPYPYNATVDQKLLDQGA LLMGKTKLNDFAMGSGSTDGV FGPVKNPWYSYSK
23245	53613	A	23379	255	1042	ILAARMGKQNSKLRPEVMQDL LESTDFTEHEIQEWYKGFRLDC PSGHLSMEEFKKIYGNNFFPYG\D ASKFAEH\VFRTFDANGDGTID FREFIIALSVTSRGKLEQKLKW AFSMYDLGNGYISKAEMLEIV QAIYKMVSSVMKMPPEDESTPE KRTEKIFRQMDTNRDGTWVPH LALIYRTAEGGFAVQRASVSFY PPPSAGNAMVNEAAVFLEIPLG SSPGQVSAVCHSGRKLSLEEFIR GAKSDPSIVRLLQCDPSSAGQF

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23246	53614	A	23380	1	721	MDGNLRKIRFEKHAITEEFRTT EPGLAALRLPSTWIRGVRTSES KREVGKGGQSQQYENRDTEGE GHVMTKARDWSKAAASQRLP ANHLLKRLCIDGFRSHSLPEEGP KKPCQHHAQEEPCTRSGRLPQ AHEGSISDCCTSSEQGSMDIGSV EPGTGYNLLVCHLL/STLEKRSI WAGVSRFSRYHLSRLPLARK\G NPLTPCASQLLLPLPSTTQKRQS GHALYSFPYRPQPKNDNLVMP
23247	53615	A	23381	80	562	DRAMWGDLLWLLPPASANPGT GTEAEFEKAAEEVRHLKT/RSPS DEEMLFYGHYKQATVGDINTE RPGMLDF/TGKA\KWD\AWNEL KGTSKGDAVEA\YLNQVAELK KKYGDMERLDLVTVPVYPKP ETIPFFSNTVDGWEFRENNPV KPATQRLLTHTGS
23248	53616	A	23382	380	1041	EVTINSGFIFIMLFMEHPEHYTI MHKWILTWILPTLLYRSCFHIIC LVGTISLACND\MTPEQMANTV NCSSPERHTRSVDYMEGGDIRV RRLFCRTQWYLRIDKRGKVKG TQEMKNNYNIMEIRTVAVGIVA IKGVESEFYLAMNKEGKL\YA KKECN\ED\CNFKELILENHNT YASAKL/WHNGGEMFVALNQ KGIPVRGKKTKEQKTAHFLP MAIT
23249	53617	A	23383	127	549	SSPKMAATMKKAAAEDVNVTF EDQ\QKINKFARNTSRITELKEEI EVKK\KQLQNL\EDACDDIMLA DDD\CL\MIPY\QLGDFVISHSQE ETQEMLEEAKKNLQEEIDALES RVESIQRVLADLKVQLYAKF\G SNINLEADES

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23250	53618	A	23384	1	2050	MEYESMVISFDDRVMEKTEYG PIFTVFAMGNRMTFVTEEEGIN VFLKSKKVDFELAVQNIVYRTA SIPKNVFLALHEKLYIMLKGKM GTVNLHQFTGQLTEELHEQLEN LGTHGTMDLNNLVRHLLYPVT VNMLFNKSLFSTNKKKIKEFHQ YFQVYDEDFEYGSQLECLLRN WSKSKKWFLLEFEKNIPDIKAC KSAKDNSMDSDEDPVNLQSRS ALVCEMLHVQRSSSDADAIGPH ADHSLSNRWEVILADEHGIIAD DMISRYALSEKSQVELSTQVIKS ASSKSVNKSDIDTSVFLNWYNP EKKMIRAYATVIDGPEYFWCQF ADTEKLQCLEVEVQTAGEQVA DRRNCIPCPYIGDPCIVRYREDG HYRALTINICEDYLVSVRLVD FGNIEDCVDPKALWAIPSELLS VPMQAFPCCLSGFNISEGLCSQ EGNDYFYEIITEDVLEITILEIRR DVCDIPLAIVDLKSKGKSINEK MEKYSKTGIKSALPYENIDSEIK QTLGSYNLDVGLKKLSNKA VQ NKIYMEQQTDELAITEKDVNII GTKPSNFRDPKTDNICEGFENP CKDKIDTEELEGVSQKAQESMC TEDMRKSSCVESFDDQRRMSL HLHGADC PKTQNMNICEEEF VEYKNRDAISALMP\FSLRKA VMEASTIMVYQIISQLNYRTPTL
23251	53619	A	23385	3	602	TRPPTRPGLSPDPTSPTEADRGV CERPHRCFLLPQITHPSSGRRCL CLLSPTSFDFSLLYESQSDRAIF GVGTEPDQEPPPPYHEQVPVSV YHPTP\SQTWVATQLTEEEQIRI AQRIGLIQHLPKGVY\DPWRDG SEKKIRECVICMMDFVYGDPIR FLPCVHEWYHLDCIDDWLMRS FTCPSCMEPVDAALLSSYETN
23252	53620	A	23386	33	512	TAARCQGGPTHVPAFVGTACP TRIPGHAPARQCREYYY*YYD F/WKEPRRCHALLPPWAGLEV GMPPSHTQLGMHPAPPPHLEV KAQG\PSNRQRTDGCRWCSGR ASALGGGRQDSRLRERGGGYD H/HCPICRSLKIQLKCHPASGPQ TVGLGRLASVS
23253	53621	A	23387	1	1731	
23254	53622	B	23388	1	706	

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23255	53623	A	23389	1	1986	MGIGEGPTTSEGCRESVEYSHQ KSELPLSGDSQVPGPIGCNCDP QGSVSSQCDAAGQCQCKAQVE GLTCSHCRPHHFHLSASNPDGC LPCFCMGITQQCASSAYTRHLIS THFAP/GDFQ/GFA/LVNPQRNS RLTGEFTVEPVPEGAQLSFGNF AQLGHESFYWQLPETYQGDKG EAYFARMRRAHQNRSLSEEQ LRAAVTAGRIPEPPEGRDWAQR ASQFSLSYEGFSLLPGLSLYYWQ LPRAFLGDKVAAAYGGKLRRTL SYTAGPQGSPLSDPDVQITGNNI MLVASQPALQGPERRSYEIMFR EEFWRRPDGQPATREHLLMAL ADLDELLIRATFSSVPLAASISA VSLEVAQPGPSNRPRALEVEEC RCPPGYIGLSCQDCAPGYTRTG SGLYLGHCELCECNGHSDLCHP ETGACSQCQHNAAGEFCELCA PGYYGDATAGTPEDCQPCACP LTNPENMFSRTCESLGAGGYRC TACEPGYTGYCEQCQPGYVG NPSVQGGQCLPESELHFPSVQ PSDAGVYICTCRNLHQSNTSRA ELLVTEAPSKPITVTVEEQRSS VRPGADVTFICTAKSKSPAYTL VWTRLHNGKLPTRAMDFNGIL TIRNVQLSDAGTYVCTGSNMF AMDQGTATLHVQGSAAEAGERS MYSISVLLKYTS
23256	53624	A	23390	3	13319	PASGRLRAARSRRGASERESG AGRAMGWRAPGALLALLH GRLLAVTHGLRAYDGLSLPEDI ETVTASQMRWTHSYLSDDDEYM LADISGDDLGSDDLGSDFQM VYFRALVNFTRSIEYSPQLEDA GSREFREVSEAVVDTLESEYLKI PGDQVVSVVFIKELDGWVFVE LDVGSEGNADGAQIQEMLLRVI SSGSVASYVTSPQGFQFRRLGT VPQFPRACTEAEFACHSYNECV ALEYRCDRRPPDCRDMS

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23257	53625	A	23391	41	1323	HYLVFFLPSLRRYTVSLSPNSTS YQLLVPGPSY/SALPISSAASLY AGA\GGSGSRMSVSHSTSLRDG ISSGGLA/TGMARGLGGMGGIQ NKKETTQSLNDSLAVRVRLET ENRKLESKIREHLEKKGPQVRD WSHYFKTIEDLRAQIFANTVDN VRIFLQIDNARLAADDFRVKYE TELAMRQSVESDIYGLHKVIDD TNVINGCSFFMKKNHGEEVKC LQAQIASSGLTMEVDAPKSQDL AKITADISTRYDELARKNREEL DKYWSQPIEESTTEVTMQSAKV RAAEMTFMELRRTVQSLEIDL LMRNPKASLENSLREVEACYA LQMEQLNLDP/GILLHLESEL TRAEGQL\QAQKYKALLNIK LEAEIATYCLLEDGKDFNLGD TLDSSNPMQTIQKTTTSRIVDG KVVSETNDTKVWRH
23258	53626	A	23392	1	771	
23259	53627	A	23393	732	1656	SCSWTSPAAWPPNASLHSLCKR RNQDHLLLDWDRFLDFPSSMA SKCQSPLLQKKKPRPLALGP EKTSASAGLPKKGEKEQQTIE HIHEVQNEMDRLEQAK\RSEL ISKIPDFWVTIFVNHPEVSALPG EEDEEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSSKSTEIKWKYGK DLMKRSSQTQNKAKHRKRQHEE PESFFTWFTHSDVGADELGEV IKDIWPNPLQYYLVPMDNNEEG EGEEDDDDEEEGLEDEEG DEDEGEDEDEGEKGEDEGE
23260	53628	A	23394	3	923	ARRLVVWFDFPNSMAPKRQS PLPPQKKKPRPPPALGPEETSAS AGLPKKGEKEQQAIEHIDEVQ NEIDRLNEQASEEILKVEQKYN KLRQPFFQKRSK\LSAGIPNFWV TTFVN\HPQVSALLGEDEEAL\ HYL\TRVEVTEFEDIKSGYRIDF YFDENPYFENKVLSEFHLNE\S GDPSSKSTEIKWKSGLDLTKRS SQTQNKASRKQHEEPESFTW FTDHS DAGADELGEVIKDDIWP NPLQYYLVPMDDEEGEGEED DDDDEEEGLEDEEGDEDEG EEDEDDDEGEEGEEDGEDD

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23261	53629	A	23395	732	1656	SCSWTSPAAWPPNASLHSLKR RNQDHLLLDWRFLDFPSSMA SKCQSPLLPQKKKPRPLALGP EKTSASAGLPKKGEKEQQTIE HIHEVQNEMDRLNEQAKRSEL ISKIPDFWVTIFVNHPEVSALPG EEDEEALHYLTRVEMTDFDDIK SGYRIDFYFDENPYFENNILAKE FHLNESGDPSSKSTEIKWKYGK DLMKRSSQTQNKAKHRKRQHEE PESFFTWFTHSDVGADELGEV IKDIWPNPLQYYLVPDMDNEEG EGEEDDDDEEEGLEIDEEG DEDEGEDEDEGEKGEDEGE
23262	53630	A	23396	3	924	ARRLVVWFDFPNSMAPKRQS PLPPQKKKPRPPALGPEETSAS AGLPKKGEKEQQAIEHIDEVQ NEIDRLNEQASEEILKVEQKYN KLARQPPFFQKRSL\SAGIPNFW VTTFVN\HPQVS\ALLGEDEEA L\HYL\TRVEVTEFEDIKSGYRID FYFDENPYFENKVLSEFHLNE\ SGDPSSKSTEIKWKSGLDLTKR SSQTQNKASRKRQHEEPESFFT WFTDHS DAGADELGEVIKDDI WPNPLQYYLVPDMDDEEGEGE EDDDDDDEEEGLEIDEEGED EGEEDDDDEEGEEGEDEGED
23263	53631	A	23397	1	1393	MGKQKGGGPQAWAEGLGRE WMRMPQEGKGSQRKSTQKQT KREIDAYIVQAKERSYETVLSF GKRGLNIAASPAVQAATKVLW APSPAAPIPLRPFGLIQLLCQG AQRWQPGSREVKGRLCQARLA ETSSIAGNLRVQSYERPVDPGV TMDPLLPGRTIVFAAGDHTLW RAPVSSCAQRSGVWSDNMGV NSGSVPFHGVRIQASQLISLFSN FSFCEADLKTPLHGFLILPAGPK EEVTVKKEKRERDRDRQREGH GRGRGRPEVIQSHSIFEQGP AE MMKKKGNWDKTVDVSDMGPS HIINIKKEKRETDEETKILRML EKDDVDHHLSEHLVTTATFSI GSTGLVVYDYQQVECGGHVRA DLKTQDLYSHAQFGDNNYPGG VDWYRAGGLQSDTEDECWS DTEAVPRAPARPREKPLIRSQSL RVVVKRPPVREGTSRSLKVRTR KKTVPDSDVS
23264	53632	A	23398	297	584	

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23265	53633	A	23399	2	149	CMKFGAVTPIGGPPLGDQSPVL LLFAL*KRSTYNLGSSDPPAQQI SHQF
23266	53634	A	23400	1	170	PAGIRHEERSTYDLWSSDRPGQ GTSHQF*IIRFQIPWNSGPRLSE* LLPRSSRLSS
23267	53635	A	23401	1	1077	
23268	53636	B	23402	289	1359	
23269	53637	A	23403	3	2233	
23270	53638	A	23404	1	1491	
23271	53639	B	23405	76	511	
23272	53640	A	23406	1	2706	
23273	53641	A	23407	273	862	
23274	53642	A	23408	1	1080	
23275	53643	A	23409	134	675	MHYFHSSVQIGLPLTRRSQVLIL PQPLLNPILLSPLLTPVPAYS FIL/PTSPPPPARQFPLKKVAEAK GIVKQLKTDARSRKPTGPSQ TLWVTLTVEDLKHAFFTIPLHP SSQPLFAFTWTDPDTHQAQQIT RAVLPQVFTDSPHYFSQAQISSS SVTYLGIIKITHVLSLLIMSG
23276	53644	A	23410	1	895	MEVHKHPFNTLALRHESGCEL VWAEKHRNQIFPPKSTASPKQ WDTGRHNSDAKQQEPGGRER NTMEMETKETHFIRGPKTLASV TDWEGSLPLVFNHCRGTSIIHP RFKGVRRRDACLGPSPLAASP AFLGKGQHALKGLKPVITRLLQ HGLLKPINSPFPS\PILPVLKPKD AYKLVQNLRLINQIVLPIHPVVP NPYTLLSSIPPSTTHYSVLDLKH AFFTIPLHPSSQPLFAFT*TDPD H*AQQITWAVLPQGFTRQPPLL QLSPNFILICYLSRHNSHKNTRA LPADRV
23277	53645	A	23411	1	930	MIQEHADKQVQRLQGVLLGSIP TAASRARLHPGEINNHAHTEP VWWSLHMDAYEIWCRGSDRR TSLGRSIPLPALCSLRRHILRPQ VLRSTSPRNISPISNPGHLSDYTP TFQGCQTMQGRLPWSFTLSGK SRFSGEGATQRQYPIQQALKG LMPAITRLLQHGLLKPINSPYHS PILPVLKPKDPYKLVQDLRLINQ IVLPIHPMVPNPYTLLSSIPASTT HYSVLYVKHAFFTIPLHPSSQP LSTFTWTDPDTHQAQQIT*AVL PQVFTDSPHYFSQAQISSSSVTY LGIILHENTRALPADHV

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23278	53646	A	23412	299	1028	RLGSFSSNHPYLGQRQYPIPQQ ALKGLKPVITCLLQHVLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVNPYTLT SIPPSTTHYSVLDLKPAFFTIPLR LSFQPLFTFSWTDPDTHQAQI TRAVLPQSFTDSPHYFSQAQIS* RLGSFSSNHPYLGQRQYPIPQQ ALKGLKPVITCLLQHVLKPVN SPYNSPILPVQKLDMPYRLVQD LCLINQIVLPIHAMVNPYTLT SIPPSTTHYSVLDLKPAFFTIPLR LSFQPLFTFSWTDPDTHQAQI TRAVLPQSFTDSPHYFSQAQISS SSVTYLGIPGFAILTKPLYKLT GNLADPIDPKSFPHSSFRSLKTA LETAPILALPVSSQPFSLPTAEV WAAQSEFLHKNRDRTE
23279	53647	A	23413	157	202	RSECARWMEK*CPWL
23280	53648	A	23414	184	482	EGVSVFLLSPYQGGPQVSRRC S/RQVSQRCPHRGRGPCQVS RSHGPSWVGHPGMPLYGS\EQF YCGAPGLAGPPNGSRGESLKIS VWIFPCRDFGNFN
23281	53649	B	23415	13	862	
23282	53650	A	23416	1	11342	MATRWFYYGHPPRDARVPRIV AEAKEKNLTPGKIIEDVTIEAQ IRQEFLDAERDTGGFVKFFRITK KKLQEFFLGEEEEEQVPHVSPVE LGAKPTAFNAFIANAVGKTLAV QHASLKAPEPEMTVTHERFYG NYAVWITDVPDPRNHRIEVIHVI REISGRTSEYVNNLLAQPTPFK VFDWLTETQAKEFVRRLLNNTQ GVISVYNKLEDGIPVKVAVKAT EPTNKEKLEAASTKLKAMGAV ATDAYEFHTDLNENE
23283	53651	A	23417	7597	7883	LSSLAWVWQWNHRISVLFHSN SVRTNLVPQFNQLVITESNSCPE FFNQTSAFFKT*VESGCM/CLQD *GIEWFRLRLDVYNSRLVFLTG ATDYCTG
23284	53652	A	23418	3	1573	
23285	53653	A	23419	6692	6793	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIPQS
23286	53654	A	23420	1	17727	
23287	53655	A	23421	6687	6785	VNTGNRTWWEPLFRK*KKTQR EDTTEKKTGR
23288	53656	A	23422	1	2856	
23289	53657	A	23423	1	7194	

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23290	53658	A	23424	7460	7561	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIQS
23291	53659	A	23425	1468	1857	
23292	53660	A	23426	1	1985	MEPVGIDIIAISWIGAPEYPDNV KRAINAKVEATQKTLQREQEIQ QRVAEANMEREQAKGVADAIR LRGEALTENPNVMQLEAINKW NGLVPFITSSPGMGKSAIVRQIA EDFGLKLIDHRLSTSAPEDLSGL PRFKENGRAEFAPFDELFPLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDGMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSRLIHLEMETDFDVFME DVAIPNKWDERVIAFLNANPNK LNDFEPDHQEKTFCCSRTWEFV NKIVSILPPGPINSEMTLLLAGTI TSGVATSFVQFTQVYSNMVSL NEILDNPKKARMPEDNNLLWA VVTSLINNTDEDNHSKIFDYVE RMPFTFKVLYYRSRKTDMST DAQLTREYDRCQAKAFMGKTA AFFGSLLCSLKFRWVKDGCOT AQTGGEHLEWNPWFESLLPE SRVTVLMHELWHVGLLHSHR MGSRDPEVWNYACDIYINNQLI QDGYSFIGIENCWKDPKYAGW AEEQIYHDLMSKHPRPPKASGA FGTSGSGDMKPSTSKASLKLSG GSLPGVLPKMEEVITQFLKPV VPWQVLLERFFNDLQETYYSW QRPNRRYPDMYLPSSMDDDCR LEHLAYFL*NEADLTGLLVLK* TDDGQSVSGQNLLQSDEQLQIY
23293	53661	A	23427	2365	2784	
23294	53662	A	23428	5789	5980	DQNMRFDNFTETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23295	53663	A	23429	1	6819	
23296	53664	A	23430	376	2052	SKVCGNDGFADDLKHLIFTGA QSGEDIVPFQLEDGHSLEVVV LHGGSGVESGQR/CGRTSAGSC Y*SPGKICCCNLLVTKTEGFFAP VPIQLENTNQVTNCSDNW
23297	53665	A	23431	2	2189	
23298	53666	A	23432	2	1583	
23299	53667	A	23433	2142	2242	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIQS
23300	53668	A	23434	3	1188	
23301	53669	A	23435	470	862	
23302	53670	A	23436	1	1352	

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23303	53671	A	23437	1837	1955	SKCSIGLYQRYPPYSNGC*NSGCI CRVY*CCREHRGYVRN
23304	53672	A	23438	1447	1565	SKCSIGLYQMYPYSNGC*NSGC ICRVY*CCREHRGYVRN
23305	53673	A	23439	773	823	
23306	53674	A	23440	3	1529	
23307	53675	A	23441	1	1794	
23308	53676	A	23442	236	427	DQNMRFDNFTFETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23309	53677	A	23443	8510	8611	GASVAPSIGS*STGNAIPSCLFQ QNVIVPIQS
23310	53678	A	23444	516	669	ATSELKRKASLGLMEPDVSRK* ARCSSLPSSSIGDGRYISGYLRL GRCHE
23311	53679	A	23445	410	593	FLNLIQPQGRKRLLLKRCRSLLP KN*CQHSKQHKLSISSVVILNIT NS*PNKVKLMPILAM
23312	53680	B	23446	1	2286	
23313	53681	A	23447	1418	1723	CNTNIIFNCHFTKLGICKAMK VVSPLIHNSIVILLNQITIDFFSTL AQICTFICLTYSKQTTRIASF KVIEEFLSLAPIEKVELKEHS*YI SISEKV
23314	53682	B	23448	1	6167	
23315	53683	A	23449	1	3199	
23316	53684	A	23450	1	5733	
23317	53685	A	23451	709	1099	
23318	53686	A	23452	5039	5230	DQNMRFDNFTFETYYWKPTIIVII IRKLLMNDSSKDTLK*LRCWK NWLQILKKHTIHFIMPLQL
23319	53687	A	23453	664	993	
23320	53688	A	23454	1	19859	MASIDSIAVCNPRQVRKFVEHC IRSGLVPFITSSPGMGKSAIVRQI AEDFGLKLIDHRLSTSAPEDLSG LPRFKENGRAEFAPFDELFPLEG DAVPEGFNGWLLFLDEFNSAR KEIQAAAYKLVLDGMTGQKKL HPYVAIVCAGNKATDRAITNNL STAMQSRLIHLEMETDFDVFME DVAIPNKWDERVIAFLNANPNK LNDFEPDHQEKTFCCSRTWEFV NKIVSILPPGPINSEMTLLLAGTI TSGVATSFV
23321	53689	B	23455	74	240	
23322	53690	A	23456	143	384	
23323	53691	A	23457	1	3267	

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23324	53692	A	23458	2	550	KRSSEHIQRIDRDVSGTLRKHIF FRDRYGTKQRELLHILLAYEEY NPEVGYCRDLSHIAALFLLYLP EEDAFWALVQLLASERHSLQG FHSPNGGTVQGLQDQQEHVVA TSQPKTMGHQDKKDLCGQCSP LGCLIRILIDGISLGLTLR/LWDV YLVEGEQAFMPITRIAFKVQQK RLTKTSR
23325	53693	A	23459	72	630	
23326	53694	A	23460	1	2835	MDALMLALGALMLALGLGDP KSAQVSDPDGAEPGPGRATGT DPLVQIHWKLGISEALSIPGGRL YRDLWSLTPVCLHIPGIAHHGP FTLGRMDVVEVAGSWWAQER EDIIMKYEKGHRAGLPEDKGPK SFGSYNNNVVDHLGIVHETELPP LTAREVKQIRREISRKSKWVKM LGEWDTYKNSRKLIDRAYQGIP MNIRGPMWSVLLNIEEIKLKNP GRYQVRSARAQPTGQAVSGAQ VSSWRERQDHPGELGVKI

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23327	53695	A	23461	1	832	MGWRARWLMPVISALWEAED PIPELTRLQQSQDPLLMGLFP TNPKEKTQEPPGQSRAPVLT VSKFKVLAGLLHLGNIQFAASE DEAQCQPMDDAKCEGQGVG WAGPVRKASLEQLLQVLHSTT PHYIRCIKPNSQGQAQTFLQEE AGAGRRRQRRRQKQRRRRRQ LGGGGDGGNGSVGDDGATRGS RGCALKECVATPRRGLLFSRP HKLAFAVGGSVTSVGPKPAP MDVVEVAGSWWAQEREDIM KYEKGHRAGLPEDKGPKPFRS YNNNVDDLHGLVQDFADFGTTIK QDFRLGQTSVDRLLQLSQGQ AVKGNQLLPVSLVKRKTTLAP NTQTASPRALADSLMQLARQV SRLESGHFYDAHNPFLPPPSMS KQAKKTGVPSEGLCRPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AVSATQLIGLQLILLGEVLQKV LTASYPAQSSVPLTSGPVRQIM KEKGKRSSEHIQRIDRDISGTLR KHMFFRDYGTQRELLHILLA YEEYNPEVGYCMDLSHIAALFL LYLPEEDAFWALVQLLASERHS LQAARAPAAIGAHERADQAQIS LGLTLRLWDVYLVEGEQALMP ITRIAFKVQQRRLTKTSRCGPW ARFCNRFVDTWARDEDTVVKH LRASMKKLTRKQGDLPPEAKPE
23328	53696	A	23462	3	497	SSECLTMAWIPLLLPLLILCTVS VASYELTQPASVSVSPGQTASIT CSGDVLAKKKYARWFQKPG QAPVLVIYKDSERPSGIPERFSG SSSGTTVTLTISGAQVEDEADY YCYSAADNNGWVFGGGVTKLT VLSQPKAAPSVTLFPSPSEELQ ANKAHTGVSQ
23329	53697	A	23463	1	393	FRSGSELVKAGLRAFFENAAED LEKTSENKLGKFTHSRTQIKG VSQNINYTTVALLPILTSIFEHV TQHQFGMDLLLDVQISCYHIL CSLYSLGTGKNIYVEILGMPDT VEDMCPDIPQLECLMKEIN
23330	53698	A	23464	319	508	
23331	53699	C	23465	94	222	
23332	53700	A	23466	1	636	
23333	53701	A	23467	1	483	
23334	53702	A	23468	1	1797	

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23335	53703	A	23469	1	4275	
23336	53704	A	23470	1	1848	
23337	53705	A	23471	122	14928	ARSWRRRWRTTRTKRRRRKSAA AVSARRAAAGGSRGAGGWT ADASGAMAEGGEGEDEIQFL RTEDEVVLQCIATIHKEQRKFC LAAEGLGNRLCFLEPTSEAKYIP PDLVCNCFVLEQSLSVRALQEM LANTGENGGEGAAQGGGHRTL LYGHAVLLRHSFSGMYLTCLTT SRSQTDKLAFDVGLREHATGE ACWWTIHPASKQRSEGEKVRIG DDLILVSVSSERYLHLSVSNNGNI QVDASFMQTLWNVHPTC
23338	53706	A	23472	134	1063	RPPGLTRSPSPAPARSPTRRQS TRRRSGATTSCSQRLWATWNG CD/VCLNQSLREIPTDDKGFTAI HFAAQWGKLACLQVLVEEYKF PVDLLTNNSTPLHLVIHRDNT TVALPCIYYLLEKGADLNAQTC NGSTPLHLAARDGLDCVKVL VQSGANVHAQDAMGYKPIDFC KIWNHRACARFLKDAMWKKD KKDFAREMTKMKMFKSQTLT MEHNYLIEYQKEHKILREAAIR KWLHGKLHPGHSLVSNTKQAR ATALSKTPEQRESQRSRSFHPSV DARLQCIPQPTMPKPIYRKPTV KRPHNVEC
23339	53707	A	23473	1	1280	MAGLGFWGHAPGLLLLLLLLV LPPRALPEGPLVFVALVFRHGD RAPLASYPMDPHKEVASTLWP RGLGQLTTEGVRRQLELGRFLR SRYEAFLSPEYRREEVYIRSTDF DRTLESAQANLAGLFPEAAPGS PEARWRPIPVHTVPVAEDKLLR FPMRSCPRYHELLREATEAAEY QEALGWTGFLSRLENFTGLSL VGEPLRAWKVLDTLMCQQA HGLPLPAWASPDVLRTLAQISA LDIGAHVGPPRAAEKAQLTGGI LLNAILANFSRVQRLGLPLKMV MYSAHDSTLLALQGALGLYDG HTPPYAACLGFEFRKHLGNPAK DGGNVTVSLFYRNSAHLPLPL SLPGCPAPICPLGRFYQLTAPAR PPAHGVTCHGPYEAIPAPVV PFLAGAVAVLVALSLGLGLLA WRPGCLRALGGPV

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23340	53708	A	23474	133	672	AVGWESGKWDSGRGQGGGQE QMWSCQSDMLYPPDQVGAWG LPGPTGPKGDAGSRGPMGMRG PPGECQCCPTAPLAIPSTRWAL PCSWPPGPPGPPGPPAPVGPPHA \GSPSMVSPPGIPAGGGGGGVAI STVPATIKTRRQEVSPELPRP/PG PAPPPGPDVRPWLLRPPGPMGK LSPGQG
23341	53709	A	23475	135	677	AVGWESGKWDSGWGQGGGQE QMWSCQSDMLYPPDQVGAWG LPGPTGPKGDAGSRGPMGMRG PPGECQCCPTAPLAIPSTRWAL PCSGPPGPPGPPGPPAPVGPPHA \GSPSMVSPPGIPAGGGGGGVAI STVPATKKTRRQEVSPELPRP/P GPAPPPGPDVRPWLLGPPGPMG KLSPGQG
23342	53710	A	23476	220	745	TVIQRITGLHSVGPDPQQLRE AKLGTMVRLVLLPTPRRTTEVR TGPRELMSVLEAILGSLLETAC DHRQTPSSKPQA/GSSRLREGT SAGQPCS/LRLRLGPRAGGRRC CRDIERSSSSSVCGRKCKRKKR KRGMCQSRHKHGCRRPQEGPR CNDGRALCSPRPQTTPGPLSTA
23343	53711	A	23477	1	2433	
23344	53712	A	23478	3	803	FPGRRFRVRACVAGGSHCLFNS CCCCTSASLPARERHEWGPAA AAAAAAAAAARRSQTQREGLFA GWGGGFAMSDDDSRASTSSSSS SSSNQTEKETNTPKKKESKVS MSKNSKLL\SPRAKGIQKEL\AD ITLDPPPNCSAGPKGDNIYEW STILGPPGSVYEGGVFFLDITFTP EYPFKPPKVTFRTRIYHCNINSQ \GVICLDILKDNWSPALTISKVL LSICSLTDCNPADPLVGSIA TQYMTNRAEHRMARQWTKRYA T

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23345	53713	A	23479	372	1839	GEAGGTEAEPENGAGGPRVPG WWGWSSTSSPRGCWDSGRSAA AIMDFLWDKRTGLAARKMPHP RRYHSSERGSRSYCEHYRS/R K/HKQRRSRWSSSSDRTRRRR REDSYHVRRCRTFSRSSSQH SSRKAKSVEDDTEGLIYHVGD WLQERYEIVSTLGKGTGFRVV QCVDHRRRGARVALKIIKNVE KYKEAARLEIKVLEKINEKDPG KNLCVQMFDFDYHGHMCISL ELLGLSTDFLKDNNHLPYPIH QVHHMASQLCQAVKFLHDNK LTHTDLKPENILFVNSDYELTY NLEKKRHRSVKSTAVRVGDF GSATFDHEHHSTIVSTRHYRAP EVILELGWSQPCDVWSIGCIIFE YYVGF\TLFQ\THDNRQHLATME RILGPIPSRMIRKTRKQKYFYRG RLDWDENTSAGRYVRENCKPL RQYLTSEAEEDHQLFDLIESML EYEPAQRLTLGEALQHPPFSRL WAEPNKLWDSSQDISP
23346	53714	A	23480	28	941	QSARPSLKRARSQRGRPLPSRA LVFLFLFFFFFFNFLPIHTQPSAH KDMTTNAGPLHPYGPQHL\RLD NFVPN\DRPTWAYTGLGLFSVT GGLRSWTTWAVVQGRAAGCPI GDFGRATVPCCWVLQCVGFIH LVIEGLVPFSNYERPCFGDQSLL NLKLWKEYGQGETARLHPGG DKFHSVALGTITSFA\WGEPFSL WV\IA\FLLQHPL\RFIL\QLVVS VG\QIYG\DV\FYFLKEHPRRDS KHGKPGPTPLLLPGFSFVFHEM PLWLVPAPGSPLCLDA\VKAPS THAPEHAWNAKGPQKPKSKKN

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23347	53715	A	23481	1	1386	MWRNLKLPRDLLNGFDQNADS DMDNEVQAEVVTGDGEELIGN WSKGHSCYILAKRLAAFFPCPK DLWKFELEERDDLGYLAEISS EAFKSVSYEKAAHWNPLESTC RHASLALAVVLQRRDWENPVG VTQLNRLAAHPPFASWRNSEE ARTDRPSQQLRSLNGEWRLMR YFLLTHLCETLVKVKDAEDQL GARVCVLERQIFDFLGQWAPI LANFVHIIIVILGLFGTIQYRPRY ITGILSFPKHQESLSLKFTCLTEA ERDTDALLHLENACRESTATQR IQGFLLKDKKRKKQQPQQQKQ QQWAKVQLGPWLQRVQAPSL GSFHGVLRLRVHRSKELRFRNC CLDFRGCMEMPGCPGRGVLQA QNPRGEPLLGQCRREMCGGSP YIVPTGALPSGAVRRRPPSSRP NGRPTDSLHCVPGKAADTQHQ PLKAARRAAVPCATGSELPK
23348	53716	A	23482	3	732	SPLTPTATSGNPSKASSPGGLGS LVSTASSLPAGEKNSPRTGPGP RRAGVAGIPNSGPDVEGPYNL CGRQGRWGGLIISLASEMKLQT LQTSVTTAKATLLELFVPLGGL VASLASEVRLQIFPRGGHLQSA KCGLLHFSLPTSRSGRRKANR PMAVTVLLVLIRDCADLLAVK AVIHCYQDQWPLRGSSRPANTP PPKASVSRPPGHRGVRRGSPL LQVGARRVGAEAPALLELQSPS
23349	53717	A	23483	1	234	
23350	53718	A	23484	1	256	MLNLQGKEWLELEEDAQKAYI MGLDRLEVVSRRRLKVARA VLYLAQDGEKFCPKRDCTNNS/ RY/NSI*MIQMMRFGTLELMRL
23351	53719	A	23485	1	3333	
23352	53720	A	23486	1	2661	
23353	53721	A	23488	3	433	

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23354	53722	A	23489	3	990	EKMNTADQARVGPADDGPAPS GEEEGEGGGEAGGKEPAADAA PGPSAAFRLMVTRREPAVKLQ YAVSGLEPLAWSEDHRVSVST ARSI AVL ELICDVHNPQDLVIH RTSVPAPLNSCLLKVGSKTEVA ECKEKFAASKDPTVSQTFMLDR VFNPEGKALPPMRGFKYTSWSP MGCDANGRCLLAALTMDNRL TIQANLNRLQWVQLVDL TEIYG ERLYETSYRLSKNEAPEGNLGD FAEFQRRHSMQTPVRMEWSGI CTTQQVKHNNESRDVGSVLLA VLFENGNI AVWQFQLPFVGKES ISSCNTIESGITSPSVLFWWEYE HNNRKMSGLIVGSAFGPIKILPV NLKAVKGYFTLRQPVILWKEM DQLPVHSIKCVPLYHPYQKCSC SLVVAARGSYVFWRLLLISKAG LNLHNSHVTGLHSLPIVSMTAD KQNGTVYTCSSDGKVRQVIPIF TDVALKFEHQLIKLSDVFGSVR THGIAVKPCGAYLAIITTEGMIN GLHPVNKNYQVQFVTLKTFEE AAAQLLESSVQNLFKQVDLIDL VRWKILKDKHIPQFLQEAEKK IESSGVTYFWRFKLFLRLIYQS MQKTPSEALWKPTHEDSKILLV DSPG\MGNADDEQQEETSSKQ VVKQGLQERSKEGDVEPTD\D SLPTTG\DAG\GREPMGRNSW GNSKGKIRSCWEMRLTREHMK
23355	53723	A	23490	1218	1446	RCTDSQV\RSPTPLHLAAQACSL ETTVCLLCSKADYTLSEKRGW MPIHFAAFYDNVCIIALCRKDP SLLEAEATAE
23356	53724	A	23491	2	632	NMAKTYDYLFKLLLIGDSGVG KTCVLA\FRFSE\DAFNSTFIFTIRI DFKIRTIELDGKRIKLQIWDTAG QERFRTITTAYYRGAMGIMLVY DITNEKSFDNIRNWIRNTEEHAS ADVEKMILGNKCDVNDKRQVS KGS/GENKLALDYGIKFMETSA KANINVENAFTLARDIAKAMD KKLDGNSP\QGSNQGVKITPDQ QKRSSFFRCVLL

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23357	53725	A	23492	1	1018	MVFYHVGQAGLELLTSGPHCP DSQAADKAESATLLSRARLGA YCACASLERRWPHFPSGRECN MAKTYDYLFKLLL\IGDSGVGK TCVLFRFSEDAFNSTFISTIGIDF KIRTIELDGKRIK\LQIWDTAGQ ERFRTDHNRPTYRGAMGI\ML VYDITNE\KSF\DNIRN\W\RNIE EHASAD\VEK\MILGNKCDVND KRQVSKERGEKLALD\YGIKFM ETSAKANINVENAFFTLARDIK AKMDKKLGPARPHGTLLGKGE EFAGVAGASASGSASLGTLPKQ TRPCPVNPQASREHTAFSIPKQ QKDNMEGNSPQGSNQGVKITP DQQRSSFFRCVLL
23358	53726	A	23493	1	130	
23359	53727	A	23494	1	1392	
23360	53728	A	23495	445	649	YPSLTNSKLLVHH\FMELC\WD KCVEKPQGIALDSRTENCLS\SC \VDRFIDT\TLAITSRFAQIVQKG GQ
23361	53729	A	23496	210	397	VIYAPGKKAQRTQK/APKTKTK KPHLSPCPSP/WRSRSCQPMQGS WSGAQVHIPQPPHTTCITWA
23362	53730	A	23497	55	286	QASSSPPISSVTCRKALPPGQTK KGLVASGDPEPVSMGTSSPTPS LAPEHSSRASLEPSSSA*PSLAT* SRAGGSQA
23363	53731	A	23498	780	1022	QAMHGRSPGVTVRASGLRNEG DGPLGSVPTQARATGAPGHSAT PSPA WRA WSSSSKAS/WLPDA AGPPTPPWSGPSPTSW
23364	53732	A	23499	1	782	
23365	53733	A	23500	275	688	

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23366	53734	A	23501	1166	2271	LRCILTLISRWCS*VSTVANLPP GISKWGANWQRCCEMKE*CWSP AVTWCITCAQRSG/IGDSSPYPG ATSFNEYVKANLTWRGPVEQH PLVNYLDHERGTLSNPTARHYL PVLYVLRILWARTPLPIGRRTT VSKVKMKKRILRAMRQKQQVL PLLVLGLDELMSAPSIPA ARMAQLDSRECRKLLNQAMA CRTSLEVEHLLAQFRMTQQDA PLVTAECITLES DWSKEEV LK GMTDNLLLAGRCRYPRKLEAD LWAREAVFSTGLGFSFAIPHSK SEHIEQSTISVARLQAPVRWGD DEAQFIIMLT LNKHAAGDQHM RIFSR LARRIMHEEFRNALVNA ASADAIASLLNMNWT VKEHHE
23367	53735	A	23502	1	2604	
23368	53736	A	23503	306	468	TRHCDRRQPRRGHRRAGT/CNQ I*KGCCCVRTKQPLSSVLISPNF CPCSSFLKNS
23369	53737	A	23504	102	509	AAQQGTMARSLLLPLQILLLSL ALETAGEEAQGDKIIDGAPCAR GSHPWQVALLSGNQLHCGGVL VNERWVLTAAHCKMNEYTVH LGSDTL/E/ADRKAQRIKPSKSF RHPGYFTQTHVNDLMLVKLNS QARLSSMVK
23370	53738	A	23505	1	1032	MMQATVGFEDGDAATSQVSPS VNKVHSSYFLDFEEYIVIAFKI LRRGPDISCSQINGEDCSPHSQP WQAALVMENE/LFCSGVLVHP QWVLSAAPVSRKYNRPLAND LMLIKLDES VSESDTIRSISIASQ CPTAGNSCLVSGWGLLANDPT SRLPPPLECRNPVPQLLLPPEKP RTAPDTLGSSPVPKSRTGSSGSS FLLPAPPSPFPRPHGTPPTSCG QDVDVPALAGGSLGSPAGEAL PRLAAPERLSRHHGKIPSPAPAD LTAILALETAGEEVFPLTSCA WMSSSSPPGLHEGLQGLTGKFH AVRWHPRLQEKRLQSVSPDSR IPGARRPAAR
23371	53739	A	23506	303	393	

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23372	53740	A	23507	391	1170	GSFFFFFKYFAYSPMPKNSKVV KREDDDDVTESVKDLLSNEDA ADDAFKTSELIVDGQEEKDTDV EGK\SEVEDERPAWNSKLQYIL AQVGFSVGLGNVWRFPYLCQK NGGVVEPECEQSSATTYYWYR EALNISSSISESGGLNWKMTICL LAAWVMVCLAMIKGIQSSGKV NTYDRVTMSATVLALQEQWQT FSPIRSGNGHLTGSGAQRTPCRI RRGGSQLRVCDGGKQQWWTV SQSSARAITNTDQKSVOQLDLIE
23373	53741	A	23508	45	546	EGGGSRLWFRELIGQPVOQSFI PVAAGGAVALNVQ/RSCGVVS AAPACL*SRPHSWRGGPACW RTPGG/LASRSSSASILMSSSRA SFTRSLSLSTHKDQGLVCSGSS GATGAGSC/LWPPTSHTVKLMF LYSTVSTLKPMVGMVVTISPSL SL*RIVVFPAASRPT/YEDAHFFF CQKGP*RGSWSSLQHPGPP
23374	53742	A	23509	1367	2142	VRRPQGCLGKRSLLSRVICALVP WGIWP/WSLAVGPQYSSLGSQP ILCASIPGLVPKQLRFCRNYVEI MPSVAEGIKIGIQECQHQRGR RWNCTTVHDSLAIFGPVLDKG YFGYLETITVPSDSVVSTKAETP DKGVCGRELGFRGGWLPELQS LDEISMGWALCSRLQIKATRES AFVHAIASAGVAFVTRSCAEG TAAICGCSSRHQSPGKGWKW GGCSEDIEFGGMVSREFADARE NRPDARSAMNRHNNEAGRQV GSPPARVLGKKEPPQQGVCPGS LGHMARSLAVGPQYSSLGSQPI LCASIPGLVPKQLRFCRNYVEI MPSVAEGIKIGIQECQHQRGR RWNCTTVHDSLAIFGPVLDKG YFGYLETITVPSDSVVSTKAETP DKGVCGRELGFRGGWLPELQS LDEISMGWALCSRLQIKATRES AFVHAIASAGVAFVTRSCAEG TAAICGCSSRHQSPGKGWKW GGCSEDIEFGGMVSREFADARE NRPDARSAMNRHNNEAGRQ

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23375	53743	A	23510	2094	2619	ASPASPAPCSGIPRT*SPYPSPSR TQ\APRARGPAIHAHPGP/RGCT ALPRQGPPTPGSARAPPRIPAHR APTSPTLNFCLASSRQSMPPAPR PPPVPATNPVTPGCGRPPPTLGC RNPQTLRPPPGLPSPALLRRPLP PPARVGMPPHQPLPTTPACWR PVDWARAEGAGRAVC
23376	53744	A	23511	3050	3317	PARTSPSASGPP**DLISALWTPS QPRAPTRQSLNSLSSSAPSSSTIG PSPSPAPGPAPPLPWLPSPSSL PRLSQVSRRPHSHLHPQ
23377	53745	A	23512	862	2954	AEHTLLVCFNLNTSLTTTSTHVES FGGQLRGSQIGHPRRPKNMPYA WSIPQDPPLKPERDPGGPLGVS LSLPVNQYGESEEPMGDDDDYD EYSKELNQYRRSKDSRGRGLSR GRGRGSRGRGKGMGRGRGRG GSRGGMNKGGMNDDDFYDE DMGDGGGGSYRSRDHDKPHQ QSDKKGKVICKYFVEGRCTWL YHTTGNCINGDDCMFSDPLTE ETRELLDKVEMTGSSVFDYIHP GDHSEVLEQLGLRTPTPGPPTPP SVSSSSSSSSSLADTPEIEASLTK VPPSSLVQERSFFVRMKSTLTK RGLHVKASGYKVIHVTGRLRA HALGLVALGHTLPPAPLAELPL HGHMIVFRLSLGLTILACESRVS DHMDLGPSELVGRSCYQFVHG QDATRIRQSHVDCETHLHPPSL PTTPQTRASHSLVPGSPSSGLPT VPPAAPTAPGTPFSIGRAARRLS DASGLLDKGQVMTGYRWLQ RAGGFVWLQSVATVAGSGKSP GEHHVLWVSHVLSQAEGGQTP LDAFQLPASVACEEASSPGPEPT EPEPTEGKQAAPAENEAPQTQ GKRIKVEPGPRETKGSEDSGDE DPSSHPATPRPEFTSVIRAGVLK QDPVRPWGLAPPDPPPTLLHA GFLPPVVRGLCTPGTIRYGAEL GLVYPHLQRLGPG\PALPEAFYP PLGLPYPGPAGTRLPRKGD

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23378	53746	A	23513	1319	2211	GSKVYGSLSLFHINHGPNPFNMEVL VDSWP EYQMVIIRPQ/ETVRGE EKVQGNLTFHHPTQEMTDDM DSYTNVYRVFSKDPQKSQEV KNSEIINWKQLQIQGFQESLG EGIRAAAFSNSVKVEHSRALLF VTEDILKLYATNKSGLGSAET GHPDDELESETPNFKYAQLNVS YSGLVNDNWKLGMNKRSLRYI KRCLGALPAACMLGPEGVPVS WVTMDPSCEIGMGYSVEKYRR RGNGTRLIMRCMKYLCQKNIPF YGSVLEENQGVIRKTSALGFLE ASCQWHQWNCYPQNLVPL
23379	53747	A	23514	234	858	SVPLQESPLPPPPTHQADC*SPC GAQGGWVTLAVASASS*AHTA SPLPRSPQAQGRASPAPPQIHL TTPSSFSSQGT/SHGGLGSTPGA DDPNTSSS\PPPGGSTPRWSAGD SAHSGGEVDGWS*SFP*SVPSY GT*SPFCWPSSGQRSFHGIASG WEPDGIPDGSSRWEPCGKPQES ETGVEGRQHFPKQLCLGSCRA VASPRVARA
23380	53748	A	23515	1	3582	
23381	53749	A	23516	628	4254	RLPESRAHDVAGADERPWPVH AGIFKSPAAGAAMSPAAAAAG AGERRRPIASVRDGRGRGCGGP AGAALLGLSLVGLLLYLPAA AALAWLAVGTAAWWGLSRE PRGSRPLSSFVQKARHRRTLFA SPPAKSTANGNLEPRTLLEGP DPAELLLMGSYLGKPGPPQPAP APEGQDLRNRPPRRPPARPAPR STPPSPPTHRVHHFYPSLPTPLL RPSGRPSPRDRGTLPRDFVITPR RRYPIHQTQYSCPGVL
23382	53750	A	23517	1	392	KVHMNGLRYALYIMGPALTRG CHQVLIMLCCEVIERILT/VMM KEAYFGEVDIMDDLPT\GNISA NVTGRLYKCGVINHTVDLRRM KT/EKWQNNLLPSRQFGFIVLTT SAGIMDHEEARRKHTGGKILGF
23383	53751	A	23518	227	352	

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23384	53752	A	23519	3	507	SFRAATMVRMNVLADALKSIN NAEKRGRQVLIRPCSKVIVRF LTVMMKHGYIGEFEIIDDHRAG KIVVNLTGRLNKVG VQWRDLG YCNLC L PGSSDSSASASLVAEIT \CGVISPRFDVQLKDLEKWQNN LLPSRQFGFIVLTTSAGIMDHEE ARRKHTGGKILGFFF
23385	53753	A	23520	279	653	ARAQRFSSQVDVFYLIQSVIFCR LALAEFEIIDDPQSLGKLL*TLT GRLKQ/CLGVISPRF\DVQLKRP WKKWHEIIL/PSNPAKFGFIVLT TSAGLHG/HHEGRQDRKHTGG KILGILLYRDVIHIFT
23386	53754	A	23521	1	392	KVHMNGLRYALYIMGPALTRG CHQVLIMLCCEVIERILT/VMM KEAYFGEVDIMDDLPTGNISA NVTGRLYKCGVINHTVDL/PPY ENGKWQNNLLPSRQFGFIVLT SAGIMDHEEARRKHTGGKILGF
23387	53755	A	23522	108	371	LSYIGKFEIIDDHRAGKIVVNLT GGLNKC GVISLRFDVQLKDLEK WQNNLLPSCQFGFIALTT SAGI MDHKEAR*KHTAGKILEFFF
23388	53756	A	23523	252	378	
23389	53757	A	23524	3	518	HASAFRAATMVRMNVLADAL KSINNAEKRGRQVLIRPCSKVI VRFLTVMMKHGYIGEFEIIDDH RAGKIVVNLTGRLNKVG VQWR DLGYCNLC L PGSSDSSASASLV AEIT\CGVISPRFDVQLKDLEK\ WQNNLLPSRQFGFIVLTTSAGI MDHEEARRKHTGGKILGFFF
23390	53758	A	23525	279	709	ARAQRFSSQVDVFYLIQSVIFCR LALAEF*NPLMTHQSLGKFVVN PHRAGLNKCGVISPQILTVQLQ RPWKKWAGLILLPSRQVLGF/I VLTTSAGI\MDHEEARPKTPRR GKSWGFFFLGDVNYILFYKLKC LMDSGASTWSF
23391	53759	A	23526	207	564	SMAKEAISINRSLWAGPAKISSP AETE\IESLISLFQKYVGKGGYN CTLSKTEFLSFMNAELAAFTKN QKDPGVLHRMMKKLGTNNDG QLDFSEFLNLIGGLAMACHDSF LKAVPSQKRT

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23392	53760	A	23527	1	407	FREKQSQELSQYGAMGAGQSF NSQFLQHGGPRGPSVPAGMNP TGIGGVMGPSGLSPLAMNPTRA AGMTPLYAGQRLPQHGYPGPP QAQP/PAPTGGQENLL*GVSRA AVSARSLPGPFRAIPVSHLAGNP TPPMNPH
23393	53761	A	23528	3	315	
23394	53762	A	23529	1	763	DYEEITIDPTCSWKPVVPKPD HIKEEPDGPALKRCRTVSPA LMPSVMEMIAALGPGAAPFAPL QPPSVAPSDYPGQGSFLGPGT FPESFPPTTPTSTPLAEFTPGPP CYQSDIPSSLLTSEKST/SLPLQA RR/PPAGHLDPHTNPGTPGLHTS NLGAPPGPQLHHSNPPASRQS LGQASLGPTGELAFSPATGVMG PPMSGAGEAPEPALDLLPELT NPDELLSYLGPPDLPTNNNDL LSLFENN
23395	53763	A	23530	1	2901	MERRGPGAATARGRARPGGGP SVGLLATGSSLNPSFHGVARIVP GFIRIARPRDGSFAYESVPWQQS ATQPAGSLSVVTTVWGVGNAT QSQVLGNPMGPAGSPSGSSMM PGVAGGSSALTSPQCLGQQAFA EGGANKGYVQQGVYSRGGYP GAPGFTTGYAGGPGGLGLPSH AARPSTDFTQAAAAA VAAAA ATATATATATVAALQEKSQE LSQYGAMGAGQSFNSQFLQHG GPRGPSVPAGMNP TGIGGVM
23396	53764	A	23531	80	412	KPGNGACAGREWCDGGGA NWRDPGLPVGDSGVWDRVLE LLGPRSPRPLDVGGPAAGTPGV LSR/HLPVDCGLGPEALLCSSAP AARRPSLCGGHGRVMRGFRLG CGFRP
23397	53765	A	23532	1	192	RPLDVGGPAAGTPGVLSR/HLP VDCGLGPEALLCSSAPAARRPS LCGGHGRVMRGFRLGCGFRP

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23398	53766	A	23533	1	2094	RPLDVGGPAAGTPGVLSRPCPS TAALAPKPFCAAPRPQPDAPAC AGATGGSCADFDGVDVFRRR SSGLWGPQPPLFPVKNYTEMFQ DPVAFKDVAVNFTQEEWALLD ISQKNLYREVMLDTFWNLTSIG KKWKDQNIYEYQNP RRNFRS VTEEKVNEIKEDSHCGETFTPV PDDRLNFQKKKASPEVKSCDSF VCGEVGLGNSSFNMNIRGDIGH KAYEYQEYGPCKCQQPKKA FRYRPSFRTQERDHTGEKPYAL LKNDGKKPLFYHSSIQRHMOVV HSGDGPYKCKFCGKAFHWLSL YLIHERHTGEKPYECKQCGKS FSYSATHRIHERTHIGEKPYECQ ECGKAFHSPRSCHRHershMGE KAYQCKECKGAFMCPRYVRRH ERTHSRKKLYECKQCGKALSSL TSFQTHIR\MHSGERPYECKTCG KGFYSAKSFQRHEKTHSGEKPY KCKQCGKAFTSGSFYHERTH TGEKPYECKQCGKAHERHTTG EKPYECKLYGKALSRLISFRRH MRMHTGERPHKCKICGKA\SS PSSFQRHERSHTGEKPYKCKQC GKAFTCFHF\FQYHERHTTGEK PDGCKQCGKAFRSAKYIRIHGR THTGEKPYECKQCGKAFHWVS SFHRHERTHAGEKPYECKHCG KAFTCSIYIRIHERIHTGEKPYQ CKECKGAFIRSSYCRKHERTHTI

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23399	53767	A	23534	48	1317	CGLMDELVHDLTSALEQTSEQ NKLGEWEEMALSPRQQRQL RKRRGRKRRSDFTHLAHTCC YSEASESSLDEATKDCREVAPV TNFSDSDDTMVAKRHPALNAI VKSKQHSWHESDSFTENAPCRP LRRRR\KVKRVTSEVAASLQQK LKVSDWSYERGCRFKSAKKQR LSRWKENTPWTSSGHGLCESA ENRTFLSKTGRKERMECETDEQ KQGSDEMSECETSSVCSSSDT GLFTNDEGRQGDDEQSDWFYE GECVPGFTVPNLLPKWAPDHCS EVERMDSGLDKFSDSTFLLPSR PAQRGYHTRLNRLPGAAARCL RKGRRLVGKETSINTLGTERRIS HIISDPQKDFWLPSAGKERN QFNPLSPLYSLDLADASHRRRC SPAHC SARQANVHWGPCCSRDI KQEAETSGHSIFV
23400	53768	A	23535	225	403	
23401	53769	A	23536	1	403	REQEFLHMAPGEVTITVR\LIRS LEHR\NFKPVVYHGVNLDQTV KEFIVFLKQDIPLRTNLPPFRN YKYDALKIIHQAHKSKTNELVL SLEDDERLLLKEDSTLKAAGIA SETEIGIFREEDYRNYKANPISS
23402	53770	A	23537	2	239	
23403	53771	A	23538	2	214	
23404	53772	A	23539	1	1341	
23405	53773	A	23540	1	1677	
23406	53774	A	23541	1010	1509	
23407	53775	A	23542	1	6355	
23408	53776	A	23543	223	10504	VKMPIGSKERPTFFEIFKTRCNK ADLGPISLNWFEELSSEAPPYNS EPAEESEHKNNNYEPNLFKTPQ RKPSYNQLASTPIIFKEQGLTLP LYQSPVKELDKFKLDLGRNVP NSRHKSLRTVKTKMDQADDVS CPLLNSCLSESPVVLQ\CTHVTP QRDKSVVCGSLFHTPKFVKGR QTPKHISESLGAEVDPDMSWSS SLATPPTLSSTVLIVRNEEASET VFPHDTTANVKSYFSNHDESLK KNDRFIASVT
23409	53777	B	23544	137	709	
23410	53778	A	23545	1	1974	

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23411	53779	A	23546	207	1622	MACCLASDEVKESKRINAEIEKA AAAETRRDARREL/RRLLLLTG GESGKSTFIK\QMRIHGAGYSE EDKRGFTKL\YQNIPTAMQAM IRAM\ETL\KILYKVRSTRANA L\LIRGGGTLEKVTTFGAFSYVQ LPLKDLFGRDPGIE/CAYERQP RSYQLSDSAKYLLTDVDRIATL GYLPTQQ\DVPAISRVP\TTGII YFPDLENII\RMVDVGG\QRS\E RRKWIHCFENVTSIMFLVASE YDQVLVESDNENRMEESKALF RTIITYPWF\QNSSVILFNKKDL LEDKILYSHLVDYFPRSSMGPO R\DAKAAEFILKMFVDLNPNS DKII/YTSHFTCPHRRRTSRFVF PAVKDTILQLNLEEKPGLSAP GPGRRDGDTGQDLPSTEPAAA RAGGAAESGPGPLPAGGDDFFF IFLTNGFYFTVIRGCTSLPPYTSR TFSPFVNGKGSFLALTYGSLFS KKKKKKKE
23412	53780	A	23547	1	401	KKVPGRLSEMSFSLNFTLPANT TSSPVTDCGPSLGLAAGIPLL VATALLVALLFTLIHRRRSSIEAM EESDRPCEISEIDNPKISENPRR SPTHEKNTMGAQEAHIYVKTV AGSEEPVHDYRPTIEMERRR
23413	53781	A	23548	584	1071	PCRLPLHLILVEDLSFSLNFTLP ANTVSTAAPIHQAT/PEKTSAEF TDCGPSLGLAAGIPLL VATALL VALLFTLIHRRRSSIEAMEESDR PCEISEIDNPKISENPRRSPTHE KNTMGAQEAHIYVKTVAGSEE PVHDYRPTIEMERRRGLWWL VPRLSLE
23414	53782	A	23549	25	654	LFLQMKDTSPIIFVRKELTIRQC TKKVPGRLSEMSFSLNFTLPAN TTSSPVTGGKETDCGPSLGLAA GIPLL VATALLVALLFTLIHRRR SSIEAMEESDRPCEISEIDNPKI SENPRRSPTHEKNTMGAQEAHI Y\VKTV\KSEEPVHDYRPTIE MERRRGLWWLVPRLSLGMMP TSNQGSHQTWHLGTGLKTQGF VLGEERCQAAS
23415	53783	A	23550	108	413	RRSGSMALWRAYQRALAAHP WKVQVLTA/GLLGRKAALLAP CQ*LYLPTQASWTEGHASCSSL QEATSCPSAFCA*NSKATKQLV ERRGLQEHQGRGLTMVS

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23416	53784	A	23551	1	146	
23417	53785	A	23552	2	442	GREARRSRSMALWRAYQRALA AHPWKVQVLTA\ASGEEGSTA GPMPVAIPADPGLLD*RTRFLLL TPRSHFLPLCLLRMKLKSHKRS LMGLGDIISQQLVERRGLQEHQ RGRTLTMVSLGCGFVGPVVG WYKVLDRFIPGTTKQVDA
23418	53786	A	23553	3	675	RHSRFGAQQSMALWRAYQ\RT LFA\LPWK\WQVLTAGSLMGLG DIISQQLVERRGLQEHQRGRTL E/TMVSLGCGFVGPVVGWYK VLDRFIPGTTKQVDA\ALKKMLLD QGGFAPSFLGCFLPLVGALNGL SAQDNWGQTTAGELG/RDYPD ALITNYYLWPAVQ\LANFYLP LHYRV\AVVQCVAVIWNLS WKAHRALSLPHSIVSTLQVMQ LDPWNGSDNPPQKWA
23419	53787	A	23554	512	1227	LQGHLMGIMAASRPLSRFWEW GKNIVCVGRNYADHVREMRSA /VWLSEPVFLKPKSTGVRAQRA RPILMPAYTRNLHHELEL\ALVI GQ\RCRAVPE\AAAMDYVGG\Y ALCL\DMTAWDVQ\ASARKKG LAWDSGE/DAFTASCPVQRVSL PKEKIPDPSQ\LKALGFKVNGEL RQGETSSMIFSIPYIISYVSKIIT LEEGDIILTGTGPKGVGPVKEND EIEAGHTRAGQYDHLKVEKAQ
23420	53788	A	23555	192	436	RTSDHECFREGQICSVCLRERL NLNPEEACLLSQAPCMLFVLQY LNTVIPYEKKASPPSV\EDLQML \TNILFAMKEDNEKVP

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23421	53789	A	23556	94	1252	ARMEAPLVSLDEEFEDLRPCS EDPEEKPCFYGSSPHLEDPSL SELENFSSEIISFKSMEDLVNEF DEKLNVCFRNYNAKTENLAPV KNQLQIQEEEETLQDEEVWDA LTDNYIPSLSEDWRDPNIEALN GNCSDEIHEKEEEEFNEKSEN DSGINEEPLLTADQVIEIEEMM QNSPDPEEEEEVLEEEDGGGETSS QADSVLLQEMQALTQTFNNNW SYEGLRHMSGSELTELLDQVEG AIRDFWE\ELVQQLARRDELEF EKEVKNSFF\TVL\IEVQNKQK\E QRELMKKRRKEKGLSLQSSRIE KGNQMP\LRFSMEGISNILQSG IRQTFGSSGTDKQYLNTPVPIYEK K\AYPPSVE\DLQMLTNILFA\M KEDNEKVPYFA
23422	53790	A	23557	391	1169	GSFFFFKYFAYSPMPKNSKV KREDDDDVTESVKDLLSNEDA ADDAFKTSELIVDGQEEKDQDV EGK\SEVEDERPAWNSKLQYIL AQVGFSVGLGNVWRFPYLCQK NGGVVEPECEQSSATTYYWYR EALNISSISESGGLNWKMTICL LAAWVMVCLAMIKGIQSSGKV NTYDRVTMSATVLALQEQWQT FSPIRSGNGHLTGSGAQRTPCRI RRGGSQRLRVCDGGKQQWWTV SQSSARAITNTDQKSVQLQDLIE
23423	53791	A	23558	321	568	CLWCGASWPRRHSSPGRPADG HRGDRP/EGPDTQGPGRPEPSTE PAFNPQSSLDQGGGPAAPAVD DDTRRGHGGVCGDGGAGEA
23424	53792	A	23559	510	690	LRSPQ\RGVAAPPFLGSPVPFGG FRVQGGMAGQPSAPPALQTDD PYSKAHSVTPKSTPRVT
23425	53793	A	23560	25	480	
23426	53794	A	23561	84	292	VRAVQSLHFHFPWRR/ISCPSES TRSIHVDRLPRRNSASLSLAFP VSAGALINGEAWVRMGQVPIPI KAP

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23427	53795	A	23562	1138	1924	CRSSATWTPWTTTGCRGDLTK TYSLEAYDNWFNCLSMVLVATE VCRLLSPGSAMLRSPATFQVV KKKHRTRMLEFFIDVARECFNI GNFNSMMAIISGMNLSVARLK KTWSKVKTAKFDVLEHHMDPS SNFCNYRTALQGATQRSQMAN SSREKIVIPVFNLFVKDIYFLPQ NP\SNHLPNGHINFKKFWEISRQ IHEFMTWTQVECPFEKDKKIP\S YLLTAPHPTARKLSSSPSESEG PENHMEKDSWKTLLRTLLNRA
23428	53796	A	23563	3	260	
23429	53797	A	23564	1	1386	
23430	53798	A	23565	137	611	MKVNLGDSQNLACVFCRKHD DCPNKYGEKKTKEKWNLTVH YYCLLMSSGIWQRGKEEGVY GFLIEDIRKEVNRASKLKCCVC KKNGAFIGCVAPRCKRSYHFP CGLQRECIFQFTGNFASFCWDH RPVQIITSNNYRESLPWHLLG NLFEPISY
23431	53799	A	23566	181	486	DPQGEAKGAAPAEAGGGGPV*W N\GLQGPAGVPGRDGSPGANI PGTPGIPGRDGFKEGKECLRE SFEESWTPNYKQCSWSSLNYGI DLGKIAECTFTKMRS
23432	53800	A	23567	600	888	QYNGMCSPGAPVPGR\EGSPG ANGIPGTPGIPGRDGFKEGKE CLRESFEESWTPNYKQCSWSSL NYGIDLGKIAGRNCWHILAPVP NIVSLYFGS
23433	53801	A	23568	91	1170	ISLHRRPGPTCSMESPASSQPAS MPQSKGKSKRKKDLRISCMKSP PAPNPTPPRNLDSTRFITIGDRN FEVEADDLVTISELGRGAYGVV EKVRHAQSGTIMAVKRIRATV NSQEQKRLMDLDINMRTVDC FYTVTFYGFALFREGDVWICME LMDTSLDKFYRKVLDKNMTIP EDILGEIAVSIVRALEHLHSLKS VIHRDVKPSNVLINKEGHVKM CDFGISGYLVDSVAKTIN\AGCK VKHGHESLN\PDNLRKGCDVKS HVWSLGITMIEMAFLRFPYESW GTPFQQLKQVVEHPSPQLPAGR FSPEFVDFTAQCLRNPAERMS YLELMEHPFFTLHKTKETDIA\A FVKEILGEDS
23434	53802	B	23569	111	193	

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23435	53803	A	23570	312	696	RP*SAHPEPGDCSPPHPPRCGG VAQTAQVPDAPAPV*AGQHSR SYMEDHLKNKNRLEKEWEALC AYQAEPNSSFVAQREENVPKN RSLAVLTSQPTRNQCLPFLQHG PGDICTPVSISSIVLCHRV
23436	53804	A	23571	1	2974	QAAGMGPPPLLLLLLLLLLPPR VLPAAPSSVPRGRQLPGRLGCL LEEGLCGASEACVNDGVFGRC QKVPAMDFYRYEVSPVALQRL RVALQKLSGTGFTWQDDYTQY VMDQELADLPKTYLRRPEASSP ARPSKHSVGSERRYSREGGAAL ANALRRHLPFLEALSQAPASDV LARTHATAQDRPPAEGDDRFSES ILTYVAHTSALTYPPGPRTQLH EDLLPRTLGLQLQDELSPKVDS GVDRHHLMAALSAYAA
23437	53805	A	23572	1	3202	ASRRLPRGHGLSAAGQAAGMG PPLPLLLLLLLLLLPPRVLPAAPSS VPRGRQLPGRLGCLLEEGLCGA SEACVNDGVFGRCQKVPAMDF YRYEVSPVALQRLRVALQKLS GTGFTWQDDYTQYVMDQELA DLPKTYLRRPEASSPARPSKHS VGSERRYSREGGAALANALRR HLPFLEALSQAPASDVLARTH AQDRPPAEGDDRFSESILTYVA HTSALTYPPGSRTQLREDLLPR TLGQLQDELSPKVDSG

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23438	53806	A	23573	1	1459	MPLTSQDQVDQKTA AAVPTNRD STVPSDPWDCKRRPWLLVLRP LAPGTKAPPGGQNGRGRQKGS PCSRLLLLPAGPLGPASVRCIR TTTPQLLIITTSRFPSEAAVGY GSNTCIFANACQMVIMITWPY LQCIPYSVLLKDLEMRLRELE DLIEAVYTDIIQGKLDQRNQLL EVDFCIGRDIRKKDINNIVKTLH EWCDGCEA\ALLGIEQQVLRAN QYKENHNR/TLQQQVEAEDVYI LPQSGNDCRGLRFVSSLIGGVR CVHLKHKGDVWWEAIEEGEA LPGKYRLKGGRSVWAAAVRA VCMDQVTNIKKTLKATASSA QEMEQLAERECPPHAEQRQP TKKMSKVGLVSSSPLGPAGA AGTHQAWVRWGGDTKGFPPL STCSEFQTCPSPHQRLPTLLVLF QKNCYSPSPTSPFSCSLQTQGL HQCHPKTGSDTAQLPSRRFLSL CKGLVSLPVFLLLPRHFVRLVIK
23439	53807	A	23574	2	396	
23440	53808	A	23575	1	1014	
23441	53809	A	23576	110	212	
23442	53810	A	23577	1	747	
23443	53811	A	23578	323	495	GRAGKWHTQPE*SLRKAM*MF QILMMKMIVALARATSGTEAV AGRSWASGLRRSGRV
23444	53812	A	23579	26	229	
23445	53813	A	23580	1	574	
23446	53814	A	23581	889	1189	
23447	53815	A	23582	170	625	GAAVALVRPNGGTAASHVVCR EMRPLRPLQSRRCRRRTGISN MRALENDFFNSPPRKTVRFGGT VTEVLLKYKKGETNDFELLKN QLLDPDIKDD\QIINW\LEFRSS VMYLT\K\DFE\QLISIILRLPWL NRSQ\TVVEEYLAFLGNLVA
23448	53816	A	23583	166	455	RWKPSGTWPRNPMPERPGH*ES VPKPGD*AKKSGGET\RGRKEG NEHRETFSQIPDCHLNKKSQTG VKPCKCSVCGKVFLRHSFLDRH MRAHAGHKRS
23449	53817	A	23584	3	3706	

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23450	53818	A	23585	1	1970	MVTDRKAAAGTHGEARPCWG SGSRVHTYRGAGERAMRVHRP MPREDSEVRREADGGKHEQRS FGDLHPTAAPAPASGCGTQPG RVKQPGEWQHREAPQQRQPPV RPHGSHQLVTVRYERRPGGKE RARLRPGLGCPSGRTPQGRAPQ GTALPTAAAAAIFPSAALTSGQ RNASLPKFYFRGGTWTGSQSEA LCGKLSNQFLGEPLVPRIRLILS CGTCSGCSSPRKDPGHPEAGNG PSRDFQPLPSEERDSVAFEDVA VNFTQEEWALLSPSQKNLYRD VTLETFRNLASVGIQWKDQDIE NLYQNLGIKLRSLVERLCGRKE GNEHRETFSQIPDCHLNKKSQT GVKPCCKSVCGKVFLRHSFLDR HMRAGHAGHRSECGGEWRETP RKQKQHGKASISPSSGARRTVT PTSMRPYE\TKVCGKA\FISPIYF QIHQRTPTKRSYKCREIVRAFT VSSFFRKHGKMHTGEKRYECK YCGKPIDYPSLFQIHVRHTTGE KPYKCKQFGKAFISAGYLRTHE IRSHALEKSHQCQECGKKLS\CS SSLHRHERTHSGGKLYECQKC AKVFRCPSTLQAHERAHTGERP YECNKCCKTFNYPSCFRRHKKT HSGEKPYECTRCGKAFGWCSSL RRHEMTHTGEKPFDCQWVKS
23451	53819	A	23586	86	390	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQT\TSPRNISPISNPELA THAGNLATGPRNARSPGFLLSR VPSVWDPTENRTVQLTWQPLP ELLELWPKVL
23452	53820	A	23587	1	502	MLLTQSLFGGLFTRTHMKFGA VTQIRGPPLGDKSPVLLLFALER QRRHVLSMDPKLRCWSRTGKA AFPWCLIAEMPDYSPTFQRCQ TTQGRLPWSFTLSSKSRFSGEG ARACYKCQKSDHQAKECPQPG IPPKPCPICAGPTGNRTVQLTW QPLPELELWPKAL
23453	53821	B	23588	1	663	
23454	53822	A	23589	233	496	
23455	53823	A	23590	2	378	ERQRRHVLSMDPKLRCWSRTG KAAFPWCLIAEMPDYSPTFQR CQTTQGRLPWSFTLSSKSRFSG EGARACYKCQKSDHQAKECPQ PGIPPKPCPICAGPTGNRTVQLT WQPLPELELWPKAL

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23456	53824	A	23591	3	452	VRPRRDACLGPSPLAASPAFLG KGQVPQPLISLCPDPLFHPNLIS LRPNPLCPHPDLVSLCPDPFPAF LEAHKNFQTPEPQQPGIPPEPPP PGACYKC/HEI*PPGQGMPPAAQ DSS*AMS/LSVRDPTGNQTVQL TWQPLPEPLELWPKAL
23457	53825	A	23592	1352	1540	
23458	53826	A	23593	177	383	EAMEPWKGVPLGRVNTEQIAP FSEAEGPREIH*GSRKVRKAAQ GLNEGPRELFWQPLPEPLELWPKAL
23459	53827	A	23594	1478	1744	
23460	53828	A	23595	23	178	SCLEVCDEQGPEK\TRQRALRG VSSVTEDTLNICRLCWQPLPEPLELWPKAL
23461	53829	A	23596	1	282	
23462	53830	A	23597	34	241	SGDLPWEINPPSSCSLLREKDP MTSGPQT\TSRNPISNPDPGTG NRTVQLTWQPLPELELLPKAL
23463	53831	A	23598	121	286	AASFYSSPTSLTIPQPLSPFNLGV TLQSLPSLNFNSFLFWQPLPEPLELWPKAL
23464	53832	A	23599	144	488	GYEIWCRSDQGTFPWEINPPS SCSLLREKDPPTSGPQT\TRPR NISPISNLVSGLFLLSSPPSLTIPQ PLSPFNLGATLQSLPSLNFNSFH FLVETKETRFIRGAKIPAVTD
23465	53833	A	23600	471	677	
23466	53834	B	23601	67	555	
23467	53835	A	23602	1	1440	
23468	53836	A	23603	860	1209	IPGNCRDSSGVGIKERETNAGS QHMH/IKNSSVHGYPRLCVEDE DAYKKQFSQYIKNSVTPDMME EMYKKAHAAVPENPVYEKKPK KEVKKRWNRSKMSLAQKKD WVAQKKASFLRA

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23469	53837	A	23604	1	966	MGFVKVVKNKAYFKRYQVKF RRRREGKTDYYARKRLVIQDK NKYNTPKYRMIVRVNTNRD\IICQ IANA\RIEG\DMIVCAPYAHLP KIWV*RVGLTNYAAA\YCTGLL AGPAGFFHFRGMDQIYE\GQVE LTGDEYNVESIDGQPGCLHPAY WDARPLPRTYPLAIKVFGPCP*R GA\VDGGLVLFPHSTKTIPPGY DS\ESK\EFNAES/IHRKPHPWAQ NVARLHAPTLMEEDEDA/YTK KQFSQYIKNSVTPDMMEEMV/Y RKAHAAIRENPVYEKKPKKEV\ KRKRWNRPKMSLAQKKDRVA PKKASFLQSSRSGLLESLTPAIFP
23470	53838	A	23605	1	644	ANSSPVNPVVFDDVSIGGQEVG RMKIELFADVVPKTAENFRQFC TGEF/RVSFRCV*LLCLLQRGVL GLQ*GYR*TTCWP*MIAGDSDR RKDGVPYGYKGSTFHRVIKDF MIQGGDFVNGDGTGVASIYRG PFADENFKLRHSAPGLLSMANS GPSTNGCQFFITCSKCDWLDGK HVVFGKIIDGLLVMRKIENVPT GPNNKPKLPVVISQCGEM
23471	53839	A	23606	638	1391	CPAYKGAHGIQCVCYCTLPPLL QTTRRVRRNPPLTPSASGSEPW RLANSSPVNPVVFDDVSIGGQE VGRMKIELFADVVPNTAENFR QFCTGEFRKDGVPYGYKGSTFH RVIKDFMIQGGDFVNGDGTGV ASIYRGPFADENFKLRHSAPGL LSMLTWPGLTAGIFGFHQANS GPSTNGCQFFITCSKCDWLDGK HVVFGKIIDGLLVMRKIE\GMPC IFQPTWTHFLPVITTACALGSM LAAERGTKN
23472	53840	A	23607	2	591	ARAEFGTSRVGAMAVANSSPV NPVVFDDVSIGGQEVGRMKIEL FADVVPKTAENFRQFCTGEFRK DGVPIGYKGSTF\HRVIKGF\MI\ QGGDFVNGDGTGSRPVFTRGP ILQMKIFKL\RHSA\GLLSMAN SGP\STNGC\QFFITC\SKCDW/V WDGKHVVFGK\IIDGLLVMRKI E\NVPTGPNNKPKLPVVISQCG
23473	53841	A	23608	6	424	

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23474	53842	A	23609	3	470	DAWVSGRLTELPSCFFPPIFRQ LLPVMPEPSKSAPAPKKGSKKA VTKAQKKDGKKRKRSRKESYS VYVYKVLKQVH\PDGISSKAM GIMNSF\VNDIFE\RIAGEASRLA HYNKRSTITSREIQTAVRLLLP \ELCKHAVA\SEGNA\VTKYTSS
23475	53843	A	23610	93	421	
23476	53844	A	23611	2	1173	DHAAPRRRSRASVATVTRAGR CPTMSVRVARVAWVRGLGASY RRGASSFPVPPGAQGVAELLR DATGAEEEEAPWAATERRMPGQ CSVLLFPGQGSQVVGMRGRL NYPRVRELYAAARRVLGYDLL ELSLHGPQETLDRTSQVQSPGT GIPRRVRAHVLHLSQVIENC/V VS/AGLAFSPFCALIFPNALL/F WPGLYAVKIRAEAMQEASEAV PSGMLSVLGQPQSKFNACLEA REHCKSLGPVNGQICKGGFLGH CSAETSFLPQALRFLQKNSSKF HFRTRMLPVS GAFHTRLM EP AVEPLTQALKAVDIKKPLVSVY SNVHAHRYRHPGHIHKLLAQQ LVSPVKWEQTMHAIYERKKGR GFPQTFEVGPGRQLGAILKSCN
23477	53845	A	23612	187	425	
23478	53846	A	23613	1	1258	MKAYLLLGAAPLPWFPGQAV FRPCPPAGLWRTAQLVELEHG PVPREDLIPCSRPFISFLGPERV DGLAFPRIQALGIAAARGMEPK GAPGKSDSGNSRSAGGRVLGC QGAALVECSAGRGGPVRLAV GCVLLRAPERGWRREGGAARG IPAGRSES LGALSPQVGVRSDI GINGNIWHPGVQTFSSLKRSQ GLYAVKIRAEAMQEASEAVPS GMLSVLGQPQSKFNACLEARE HCKSLGIENPVCEVSNYLFDC RVISGHQEALRFLQKNSSKFHF RRTRMLPVS GAFHTRLM E PAV EPLTQALKAVDIKKPLVSVYSN VHAHQIGIPGHIHKLLAQQLV SPVKWEQTMHAIYERKKGRGF PQTFEVGPGRQLGAILKSCNMQ AWKSYSAVDVLQTLQLEHVDLDP

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23479	53847	A	23614	2	1050	GRCPTMSVRVARVAWVRGLG ASYRRGASSFPVPPPGAQGVAE LLRDATGAEEEEAPWAATERRM PGQCSVLLFPGQGSQVVGMR GLLNYPRVRELYAAARRVLGY DLELSLHGPQETLDRTVHCQP AIFVASLA AVEKLHHLQPSVIE NCVAAAGFSVGEFAALVFAGA MEFAEGLRFLQKNSSKFHFRR TRMLPVS GAFHTRLMEPAVEP LERKLLKA VDIKKPLVSVYSQR PTRIRLQAFPGNIQQSCLAQQLG LPK*KWEQ\TMHAIYERKKG/R RGFPQTFEVGP\GRQLG\AILKS CNMQAWKSYS\AVDVLQTL E H V\DLDPQEPPKMTGRGLKCNDP LCPPEERL
23480	53848	A	23615	600	905	QAPASGSPWLSGGPQQVEDAG AGYGFAPGQPPPPRTQPRSAC SRRAAG/TPVPRAPPAPSAG\PK ARAPRSLGCGSLGRFSTGVRPD KCIFPPETENAAGCF
23481	53849	A	23616	390	722	QAPASGSPWLSGGPQQVEDAG AGYGFAPGQPPPPRTQPRSAC SRRAAG/TPVPRAPPAPSAG\PR AAAPRSLGCGSLGRFSTGVRPD KCIFPPETEMSYLLFRNTVSR C C
23482	53850	A	23617	1	673	MGQVKGHKLCLDFTLLSPDGG AAEGRCLEL GWQAKEVEETIE GMLLRLEEFCSLADLIRS DTSQI LEENIPVLKA\KLT K\MRGIYAK VDRIKAFVKMVGHHVAFLEAN VLQAERDHGAF PQALRRWLGS AGLPSFRNDPTAPLRQVFEASP DPRLARTVTIQTQQPV RVSGPL SGQRKEKSLQKGAQVFQTNVP ETLLEGAAISPAPACGGPLTSGD GFRHVRK
23483	53851	A	23618	1	651	
23484	53852	A	23619	195	497	DQFLENTKKCDGLNQLSFDPA NNNKPLEFGRARGPLVTEGLIE NGGESSKKRRRTNSSADNSRT LNVDSTAMTL PMSDPTAWATA M\NNFGMAPVRJVG H

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23485	53853	A	23620	241	1823	NDDRAKFTVEDHTMQRD FRWLWVYEIGYAADNSRTL NVDSTAMTLPMSDPTAWA TAMNNLGMAPLGIAGQP ILPDFDPALGMMTGIP PITPMMPGLGIVPPPI PDM PVVKEIIHCKSCT LFPPNPNLPPP ATRER PPGCKTVFVGGLPEN GT EQIIVEVFQCGEII AIRKSKKNF CHIRFA EEYMVDKALYLSGN R ELKKFLNKEDNYFR KINLTALY KTVLEER CEKRRGGYRIRLGSS TDKKDTGRLHVDFA QARDDLY EWECKQR MLAREERHRRRMEE ERLRPPSPPPVHYS DHECSIVA EKLKDD SKFSEAVQTLLTWIER GEVNRRSANNFYSMI QSANS HVRLVNEKAA HEKDMEEAKEK FKQ ALSGILIQFEQIVAVY HSAS KQKAWDHFTKA QRKNISVWC KQAE EIRNIHNDEL MGIR REEE MEMSDDEIEEM TETKETEESEL KK LEGIVDGSVEVSAEAL RKLL NEYERQVKEEQ KVGYRIWGTI HNKGE GKKEEFAEELEKSS SER
23486	53854	A	23621	996	1512	RPVHLASPAKEQQGTR KGRRA PARLPVPTTGR GLEKGPESQAP PSFR QATGRFSRSGSSGGPT PSK NSRDCSHTPQLPT PRGNPYVFPS PGHPE SRPVEMPAPG\EPRT RQ LCRERTRKACPPK PRPPLGLPG DPTGPV THHAPPVSPTGASGQE RRAEPGAVSYAHASATK
23487	53855	A	23622	293	1140	PRGILHQDKNLVVINK\PY GLPV HGWPWG\QLCIT DVLPIAKML HGHKAEPL HLCHRLDKETTGVMV LAWDKDMAHQVQELFR TR QVVKKYWAITVHV PMPAGVV DIPIVEKEA QGQQQHKKMTLSP SY RMDDGKMVKVRRSRNA QV AVTQYQVLSSTLSS ALVELQPIT GIKHQLR VHLSFGLDCPILGDH KYSDWNRLAPQKLSV GTLKKL GLEQSKARYI PLHLHARQLILPA L GSGKEELNLVCKLPRFF VHSL HRLRLEMPNEDQ NENNEAKCL

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23488	53856	A	23623	1	1328	MAVDLGSHTPGSSGVTAATFR GRRLVNTREESVVLGAGGEVL SGVPGTWDALGPGASFGIKGM FPKGTVIMSTSPMCEGPVPRRK PCASSVGQQNSRSRKKAGRKTP TLAGRHPVKIKKEAIQKPLP ASSFSPALTRSGAIFGPCALTS APVLEYPLQKV VENEAFKVFN NRDEESKRQKQAEFRMLTSAIR GPAGPRGHSSTRKPPSNPPPPGA CFKCGNEGHRSRQCPNPGTTSQ EAELIALTRALTAAAGQQINIYS NSHYVFHIVHSHSSIWKERGILT AKNTPAINGSLINKLLKAARLP QKVAIHCRGHQTPDNPILAGN VLADQVAKQVALQPVQGGFLS LSLFSPLYSEEKEDFRAQNLQ KQGPW/LQSQGARLLVPAACAS KVAEAGRKPAGRHVPLKIQKE AIWSSPFSVPMATRAAASTPT
23489	53857	A	23624	475	622	IHSKVLFSASSSSC*NTNNSWFR ASIKKNPEKQKNMQSAIPQHG LWKI
23490	53858	A	23625	17	992	GRGEVLRGRGRGQLDAVLSRE HCGGSRQSEQPWSRRSSSSSR RRLRSAAEPAMALSMPLNGLK EEDKEPLIELFVKAGSDGESIGN CPFSQG\LFMILWLKGV\VFST TVALKRKPADCQNLVPGTPPP\ LILFSSEVKTDVKNKIEEFSEEVL\ CPPKYLKLSPK\HPRSNTAGMDI FA\KFSAY\IKNSRPEANEALER GLLKTLLQKLDEY\LN\PLP\DEI DENSMEDIKFSTRKFLDGNEMT LADCNLLPKLHIVKVVAKKYR NFDIPKEMTGIWRYLTNAYS RD EFTNTCPSDKEVE\AYS DVAKR LHQVKSRLLEKVSFMSSP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
23491	53859	A	23626	1	1128	MALASGEGLPVALSHGRRGNG QERVPLYLKLRLDTCAYRVAWRC NRLARAKVKRTSYRSGYGNGF EPGVEPDCVLLALGVENDLV RISSKAEKYSLYEFSPFLRVSR CEECECRKEPWFNPGQKPSVLIT SGQILGQEEQKTLLFPGLLSLVF QFNVENSCLRCLSLAENLEISAL LSLSCSSVIRLLINLEVTISPPITI LKHAPPLTSLEASSSSSGIEKKIH NNFRQGPFPSSATRSTFLMNHT SFDSYVVVSNIPLRLNLYPQVL DVLQSLHKIHLASNAKWTIQG PAKPDGLGLELGLHRYPDWEKE ERKKKRKRSVSPEKSITTHNKP TSSGIFY/RPRRCGCDLGRPPAP GPHPSSPPHSPQPSRCPPV
23492	53860	A	23627	3	453	SLGKDIRPRSARAACKGVGLWS GCFGKMAGSGVRQVTSTASTF VKPIFSRDMNEAKRRVRELYRA WYREVPNTGER*RLVRPAVLK HSYVANRSF
23493	53861	A	23628	3	695	PYASRRKFRVDPVRVWSGCF DKMAGSGVRQATS\TASTFVKA HFSVGDME\AKREGARVLTAP WYR\VEVPNT\VRVHQFQLD\TV KMGRDKVREMF\MKNAHV\TDP RVVDL\LVIKGVIE\LEETIKVL KQ\RTHVMRFFH\ETEAPRPKDF LSKF\YV\GHDPLKSFSGKDAR WILFLGAQIKLTIQWSLCDRIPL MNQFSAASFCLSKWGPWVLHI TCSFPFSWKCGVCCCKLD
23494	53862	A	23629	82	441	SLPINPVPTACTLQAGLLRPPG SDVRTPMLPPSAPSQPSYPTSRP PLWPTWPAGPVFRSQPLAQPN LPRSYHQAPGGQTPVALGLE\ CPKATNQPFGLTQRDPKSPAKV PPFEEFSL
23495	53863	A	23630	3	504	DRSSSSTMSTGGDFGNPLRKFK LVFLGEQSVGKTSILTRFMYDS FDNTYQATIGIDFLSKTMYLED R/TNVNSFQQTTKWIDDVTER GSDVIIMLVGNKTDLADKRQVS IEEGERKAKELNVMFIETS/AKA GYNVKQLFRRVAAALPGIMPS VLFQIIPSQALTRYLC

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23496	53864	A	23631	416	1239	GGGRSSSSTMSTGGDFGNPLRK FKLVFLGEQSS\GKTSLITRFMY DSFDNTYQATIGIDFLSKTMYL EDRTIRLQLWD'TAGQERFRSLIP SY\RDSAAA VVVYDITNVNSFQ ANYKSGIDDV RTERG\SDVINM LVGNKTDLADKRQVSIEGERK AK\ELNVILMETSAGVYNVK QLLSTCKQPALPGMESTQDRSR EDMIDIKLEKPQE\QPVSEGLF LTNLPCHLQPPFQKLTGFWPPY SFIDCSVNIGLMPFPFSNNVLRFI IAACPAWR
23497	53865	A	23632	1	493	PKPATAPPPPSL/RARFLCPQRRP ERAR/PRARGASPRPEKTAGAR KRRRGSCERPHPGG/RPPAPG*I SSRPTLGFFWILNFFFLKKLGRI KDVPWQDSTKEHLSVCRGLRG TWSVPSASDPLHPAWRRTCFRV PPTTGAREWWLHLPALQRP DSRQCHRI PVC
23498	53866	A	23633	1	560	MESIWAGLWTAQDTTVLADDF EFILWTLKRRPERAR/PRARGAS PRPEKTAGARKRRRGSCERPH GGLRRLPGARDQRAPPSDAG RSPGRLRRLPALLCAGPLSPGRE PRRWEPRAGVARPAGQQWGFF WPGNQQGASICSILWFLLECG SRSTGGPCSGTELGHFSRERPTV LLSRLGTVKRP
23499	53867	A	23634	32	327	LTQRLFGGLFTRTHMKFGALTR IG\DLPWE\INPLSS\CSLLPEKDP PMTSGPQTDQPKHELTNFKSAA RRSRTSSHRNLLHVLEIWQLD QGMPAARDF
23500	53868	A	23635	2	424	LTPFSDSAHLHPGEINSPVAHTK PVGGLFTRMRVTFGAKTQDRS TP\QETSPLSSPS\ PVTSGPQTNQ PKEHLTNFKLGKQSFHSSHASL ATLQSSSLATLQSPCPSNSNSFS SLVETRRRPGAVARLQSQLSGR LRGGRIA
23501	53869	A	23636	31	246	TALLLTQSLFGGLFTRTHMKFG AVTRIG\DLPWGINPLSSCSLLR EKDPLTISGPQTHQPKHELTNF KSGPH

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23502	53870	A	23637	125	464	TAVFLTQSLFGGLFTRTRMKFG TMTRI/RGDLPEINPLSSCSLL HEKDPPTTSGPQTNPQKKHLTN FKSRKVERTKGLLKTHLTKLSH QLKKAWTILLPLSLLRIQACPR NAT
23503	53871	A	23638	1064	1304	TAMLLTQSLFGGLFTQMCMKF GAVTRIG/DLPWEINPLSSCSLL HEKDPPTTSGPQTDPRKEHLINF KSGACYTCRKSGH
23504	53872	A	23639	539	747	TAMLLTQSLFGGLLTRTRMKF GALTRIG/DLPWEINPLSSCSLL HEKDPHTPSRKIHIRPQGNHESQ KGL
23505	53873	A	23640	709	950	TALLLTQSLFGGLFTRTHMKFG AVTQIG/DLPWENQSPVLLCSLL REKDPPTTSGPQTDQPKEHLTN FKSGKWSFHSSPAF
23506	53874	A	23641	1	1257	MGKKVLGIASQLLGAVRCEPD GRRVLPEDWPECLSLVTHGTW FTRQGDKNIQMADNSFSDGVPS DFVEAAKNASKTEKLTQVMQ NPGVLAALQERLDNAPHTPSSY IETLPKAVKRRINALKQIQVRC AHIEAKFYEEVHDLERKYAAL YQPLFDERREFITGDVEPTSDM ESEWHRENEEEKLAGDRKNK VVITEKAAATAEEP NPKGIPEF WFTIFRNVDMLSELVQEYDEPI LKYLQDIKFHFQPNDCFANSVL TKTCKMKSEPDKADPFSFAGPE IMDCDGCTIDWKKGKNVTVKT IKKKQKRKGPGTVRTITKQVSN ESFFNFFNPLKASGDGESLDKD SEF/ASDFEIGHFFRER/PQAVLY FAGEALKDDDNFDEGEEDEDEL EGDEEGEDEDEVEINPNKEPSQ
23507	53875	A	23642	132	1277	
23508	53876	A	23643	1	515	RVRHRSVSVGSTHASAHAYGE GSLRIIPVTRSPLVTMNHIVQTF SPVNSGQP/PNYEMLKEEQEV MLGAPHNPAPPTST/VIH/IRSET SV\PDHV\WSLFNT/LFMNTCC LGFIAFAYSVKSRDRKMVGDV TGAQAYASTAKCLNIWALILGI FMTILLIIPVLVVQAQR

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23509	53877	A	23644	243	643	NHTVQTFFSPVNSGQPPQRMRCI KEEHEVAVAGGPHNPAPPTS TVIHIRSETSVPDHVVWSRVQ TPSSMNPC\CLGFIAIRLTP*SLR DRKMVGDTVGAQA\YASTAK CLN\IWAHDSGASVMTILLIVIPS
23510	53878	A	23645	3	1498	RCNFLRSSRIRVHPTPAASTMPP KFDPNKIKVVYL\RCTGGEVGA TSALAPKIGPLGLSPKKVGDDIA KAMGDWKGLRITVKLTIQNRQ AQIEVVPASAMIIKALKEPPRD RKKQKNIKHSGNITFDENGNIC STDMR\HRSLSRELSGTTKEILG TAQSVGCNVDGRHPHDIIDDIN SENDKQPRKSKMRTSFSPQIPG HEHFHYLLLLQHVCQLALT RARKEGSSTHHQKLSTYYFKEG NSKEPKKIQRNTELKKEEG GGSGKAPGSEIKLESPACSGASL GEMTAWTMGARGLDKRGSF KGPLPNTCGHFWEVWEQKSR GVVMLNRVMEKGSVVEFVTEL FFYVALPKMFPVHYIVILLASKL EEVTFNFPPPDCTPFLQNYLR VAFQEVNSGCTGKTLLVRPYIT TEDVCQICVEKFKVGDPEEYSL FLFVDETWQQLAEDTYPQKIK ELHSRPQPHIFHFVYKRIKNDPY GIIFQNGEEDLTTS
23511	53879	A	23646	361	918	GCTGSRGTVPLSALGPQRIGPP GSCLQIKSWVNDICQRQPGDW KGP*GFTVKLTHSRTGQAPDCT RVP/VLPSCP*FIQSPSREPPKRPE KKPEKTFKHQLGIFTFLNEICST LLRQMR\HRSLSPEKLSWNPT* RDSWGIAQFSGAVNVGD\RHP HD\IDDIQQWVLWKCPRQLST KENIFNKGII
23512	53880	A	23647	1	642	

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23513	53881	A	23648	894	2438	VETKRIQPQPPDEGDGHDSDKED EQPQVVVLKKGDLSEVEVMKI KAEIKAADDEEPTPADGRIIY\ RKPV\KHPSDEKYSGLTASSKK KKPNEDEVYQDSVKKNSQKLII NSSLLSFDNEDENDTEKSMENL TGKIRKLQLRIVDPTFLPKLSNK GKDPVAVARLETGKGNKGAFR VLRDISRWATLCTSPQHSSEA KNIIPYQATQFQNEVHKWYKK KGGLKISKRKALFFLTQDIQKK LQKLALGPNTPTPDILKIASLVF YNQDQEEKERAQQNERQKEKL YWLSYKSASPFQVALRILSQET THKDELPTDLPNNPEVQAPGIP GNTIMAMPVAIQLKDPSSYPCR IHKVPEIASWIHRTQVKLWKSPE TSELEPTPSVIEYTTREALEDLKF LFKQKDNSSAKTPGRAYAASPR DWTSIEAELHIFYQWDPNLKG MFKPASLLAKVKQDFPDHIES PIFRAIFSNITLMGIAPICVTGKTI KKRTRQHHTTPKSNLREQASQ GSLNWEWN
23514	53882	A	23649	200	1727	RTATSLDSVLYKSDYMTWKYR VSFFYILSCRLKK/QCTDNEHV YMELSKLYKYCPKEWKKEAS KVRQYEVTWVVS KRGDYILK HIPNMHKDQFALTASEAHLKYI KEAVRLDDVAVHYRYLKDK REIEASLTGLTMRGIQIFQNL EEKQLLYDFPWTNVGKLVFVG KKFEILPDGLPSARKLIYYTGCP MRSRHLLQLLSNSHRLYMNQ PVL RHIRKLEENEEKQYRESYI SDNLDLMDQLEKRSRSGSS AGSMKHKRLSRHSTASHSSSHT SGIEADTKPRDTGPEDSYSSSAI HRKLKTCSSMTSHGSSHTSGVE SGGKDRLEEDLQDDEIEMLV DPRDLEQMNEESLEVSPDMCIY ITEDMLMSRKLNGHSGLIVKEI GSSTSSSSETVVKLRGQSTD SLPQTICRKPKTSTDRHSLSLDDIRL YQKDFLRIAGLCQDTAQS YTFG CGHELDEEGLYCNSCLAQQCIN IQDAFPVKRTSKYFSLDLTHDE
23515	53883	A	23650	182	423	RLSIMASSLNEDPEGSRTITYVKG DLFACPKTDSL AHCISED CRM GAGIAVLFKKKFGGVQELLNQ HYKEKGLRTSQLYG

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23516	53884	A	23651	1	249	
23517	53885	A	23652	435	494	
23518	53886	A	23653	163	578	RVTWLKKHLNSGNSDSVCMAS SLNEDPEGSRITYVKGS\LFEGP KTDFLAPCISED CRMGAGIT\VL FKKKF\GGVQELLNQKK\S\GE V\AVLKRRWGRLYIFTWITKRK RAFAQSPLYENLTEEFRGQLKS HLSEWSH
23519	53887	A	23654	1	2238	
23520	53888	A	23655	26	1941	RDAGTKWQRLGHLSCCHRKQA AREIINMHFQAFWLCGLLFISI NAEFMDDDVETEDFEENSEEID VNESELSSEIYKTPQPIGEVYFA ETFDGRLAGWVLSKAK\KVD MDEEISYDGRWEIEELKENQV PGDRGLVLKSRAKHHAISAVLA KPFIFADKPLIVQYEVNFQDGID CGGAYIKLLADTDDLILENFYD KTSYIIMFGPDKCGEDYKLHFIF RHKHPKTGVFEKHAKPPDVD LKKFFTDKTHLYTLVMNPDD TFEVLVDQTVVNKGSLLLEDVV PIKPPKEIEDPNDKKPEEWDER AKIPDPSAVKPEDWDESEPAQI EDSSVVKPAGWLDDEPKFIPDP NAEKPDDWNEDTDGEWEA\PQ ILNPACRIGCGEWKPPMIDNPK YKGVWIPPLVDNPNYQGIWSPR KIPNPDYFEDDH\PILLTSFSALG LELWSMTSDIYFDNFIICSEKEV ADHWAADGWRWKIMIANANK PGVLKQLMAAAEGHPWLWLIY LVTAGVPIALITSFCWPTKVKD\ RHSDLEYIIPDICIPQTKGVLEQE EKVEKAALEKPMDL EEKKQ\N DGEMLEKEEESEPEEKSEEEIEII EGQEESNQSNKSGSEDEMKEA DESTGSGDGPISLRKRRVRKD
23521	53889	A	23656	297	398	
23522	53890	A	23657	286	430	TAGARCSSRTSSPGSCFNCQKS GHWAR\NARSPGFLLSRVPSVN WIHI
23523	53891	A	23658	405	524	ARMSVACLPLGFFICLRGDFKQ NLTA YCWKCYQL* RSLGTHS
23524	53892	A	23659	1	657	
23525	53893	A	23660	22	334	ALKHFCLCSLIFSVTMMKFLAV LVLLGVSIFLVSAQNPTTAAPA DTVSSLLVLLMMKPLDAETTA AATTATTAAPTATTAASTTAR KDIPVLPKWVGDLPNR

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23526	53894	A	23661	1	270	
23527	53895	A	23662	1	284	
23528	53896	A	23663	111	281	
23529	53897	A	23664	229	363	
23530	53898	A	23665	250	586	PVRHGAFQDKSSDKKVQTKG KRGAKGKQA\EVAN\QETKEDL PAENGETKTEESP\ASDEAGEKE CQCLINNHIPCLISGPCLPSCTIQ RNIFINYFVNASFLVALETFLKK
23531	53899	A	23666	3	478	APAVGLSSSGGGRSGSGKAARF REGCRRAAARMQQAPGTRLPR RHPARAFPAATMPKRKVSSAE GAAKEPKRRSARLST\KLPKAK V\EA KPKKAAA KDKSSDKKV\Q TKGKRGAKGKQA\EVANQETK\ EDLPAENGETERLEEESLLIEA GEKEPKS
23532	53900	A	23667	1	252	
23533	53901	A	23668	328	414	
23534	53902	A	23669	1	3156	
23535	53903	A	23670	1887	2036	
23536	53904	A	23671	3	212	
23537	53905	A	23672	22	539	YEGIVMKPLIIVNPADCIGC\RT CE\VACVVAHPSEQELNADVFL PRLKVQPIWTA VSAAR*CCPFSS ENAP\CVGA\CPVGA\LTMG EQV VQTNSARCIGCQSCVSACPF GM ITIQLPGDTRQQIVKCDLCEQR EEGPACVESCPTQALQLLTERK LRRVRQQRIVVSGENPL
23538	53906	A	23673	135	302	PIHMKTRQPRDQFSADCVF LQS TCPVPC*RNRL*TPGGYWRTRR DYLRCDRSVHV
23539	53907	A	23674	175	794	LSTHSQPIADAADPPPHLHTGEL LCSAHQADFAVSAEPARPANN NAATTAPVHAVAITPPAYPDCF RTLPSLSHQDSTQRLYGIARL LLRISTSGPPPSRLKVQRLDSISA PV/MCHQCENAPCVGACP/VGA LTMGEQVVQTNSARC/IGCQSC VSACPFGMITI/QLPGDTRQQI VKCDLCGALRDCVAVLRQRRN SRVVLD ACTRA
23540	53908	A	23675	2	434	LISLPFPDLSLAHRPPSSAPTEPQ GLFTVAAPTPGAPSPATLAHL LPTPAMYSLLETENPNVGTPT QAAGTGGPAAPG/GRKMALEN PKMHNSEISKRLGADWKLLTD AEKRPFIDEAKRLRAVHMKEYP DYKYRPRRKTKTL
23541	53909	A	23676	3	264	

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23542	53910	A	23677	1	2377	MDDTFLNYKYKNKCGPKHIKK KEEEEEEDNNSNDSKNKDKTLT TGSSGSAKIFLMRGGRQLLLP TSLCLLSVQRSPGSHESGPPQS MNPRLSPQGKYLKNDFLDVIG MCDIACHLVVELLVGNNGNFL AHAFAHVEVVAQQNQRENAA RPNGGSVMIGQGASLRTCQSRV LRVARGGSPSPNGESEQGLFTV AAPAPGAPSPPATLAHLLPAPA MYSLLETTELKNPVGTPQTAAAGT GGPAAPGGAGKSSANAAGGAN SGGGSSGGASGGGGGTD\QDR VKRP\MNAFMVWSRGQRRKM APENPKMHNSEISKRLGADWK LLTDAEKRPFIDEAKRLRAVHM KEYPDYKYRPRRKTKTLKKD KYSLPSGLLPPGAAAAAAAAA AAAAAASSPVGVGQRLDTYTH VNGWANGAYSLVQEQLGYAQ PPSMSSPPPPALPPMHRYDMA GLQYSPMMPPGAQSYMNVAA AAAAASGYGGMAPSATAAAA AAYGQQPATAAAAAAAAAAAM SLGPMGSVVKSEPSSPPPAIASH SQRACLGDLRDMISITGRENIFV VGDPAACLLPIEMEETFLPWPL GFEDRLHLEGPRPVQEIPSLRK VPNCGQWLLQTPSVEPADPWE NPQAFPPSLQQEQPCLSLIVGIF VEAFGGRGRWGSKGKKPKRYR TVEWMRIHQPSICCLQETHLTR
23543	53911	A	23678	1	399	

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23544	53912	A	23679	3	1216	LG NK RAG LRRADGEAPSALPY CYFLQKDAEAPWLSKPAYDSA ECRHAAEALRVAWCLEAASL SHRPGPRSGLSVSSLRPTRKMA TTFLAHEKIWFDFKFKYDDAERR FYEQMNGPVAGASRQENGA\T VILRDIARARENIHKS LAGSSGP\GAS\SGTSGDHGELVVRIASLEV ENQSLRGVVQELQQAI SKLEAR LNV LGKELRLAHRGTAPQTQH VSPMR\QVEPP\AKKPATPAEDD EDDDID\LVGRDNE\EEDKEAA QLAREER\LR\HYAEKKAQESLP LGGQVPPSLLDVK\PWDDESDM AQLEACVRSIQ/LGTGRSWGAS QMVAVGYG\IRKLQIQCVVEDD KVGTDLLEEITKFEEARARSV DIASFSTRSEALKCVYVAHVRE GPCTRSKDLRPAKKKKKK
23545	53913	A	23680	1	2066	MAAALRAP TQVSAASSRPPLPS PPETEGRVKGFLQPGPHCPAQC LCSGDDGSNEDLEQKREVIFPR PHEAPVAEHRQQTVGLRELVAI PKRKEETTAIVQVFVAFEDVAI YFSQEEWELLDQMRLLYRDV MLENFV MASLGWC GAVDE GTPSAESVSVEELS QGRTPKAD TSTDKSHPC EICTPVLRDILQMI ELHASPCGQKLYLGGASRDFW MSSNLHQLQKLDNGEKLFKVD GDQASFMMNCRFHVSGKPFTF GEVGRDFSATSGLLQHQTPTI ERPHSRIRHLRVPTGRKPLKYT ESRKS FREKSVFIQHQRADSGE RPYKCECGKSFSQSSGFLRHR KAHGRTRTHECECG\KSFSRK THLTQHQRVHTGERPYDCSEC GKSFRQVS VLIQHQRVHTGERP YECSECGKSFSHSTNL YRHSA HTSTRPYECSECGKSFSHSTNLF RHWRVHTGVRPYECSECGKAF SCNIYLIHHQRFHTGERPYVCSE CGKSFGQKSVLIQHQRVHTGER PYECSECGKVFSQSSGLFRHRR AHTKTKPYECSECEKSFCKTD LIRHQTVHTGERPYEC SVCGKS FIRKTHLIRHQTVHTNERPYEC DECGKSYSQSSALLQHRRVHT GERPYECRECGKSFTRKNHLIQ HKTVHTGERPYECSECGKSFSQ

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23546	53914	A	23681	1	468	MAAQVGAVRVVRAVAHEEP DKEGKEKPHAGVSPRGVQR RSSSGGSQEKGRPSQEPPLAPP HRRRSQPPTSWAAAVNDM/PAP TVPGPVEPLLLPPPPPSLAPAG PADDAPLPAPSTSGLFTFSPLTA SAAGPKHKGTQGAAQAPSPPRP RW
23547	53915	A	23682	950	1326	RPESQRANGVDSGPNLKTVPQP DTRKGSVLKWSKRGKPLAVEI EESHCL\CLPLRTECLGIKPIVH LFSCTRPVIVPSLELNVDVDSIA HMFVADLLMITLPSYDIPFYC LVFQNLVLVEFYLY
23548	53916	A	23683	271	918	NQGLRDLGLCRICLVNKMFTSS ILGKGHRHSLVSIKQEHSAIRK AAG\PLPLKVGYC\QGFSPCDSL KYG\SWDEKDLTVPQPDTHKGS VLRWISKRGKPLAVEIEEG\HCL PELPPGELECPG\ILKHGLYHWS SSEMGE\NRPMVG\ARHVYSNA ALLFFTALRIFGQRRNINLGLRA HPG\IVPPELENYDIDSSAHM/FF LADLLLIITLPSYYIPFC
23549	53917	A	23684	1	942	
23550	53918	A	23685	346	1753	TWIPLSRTGRRFPVFSCSSSRV AAISFHKRWKEGRCFGRTRGE MGWEGRSRSLKELNTRNDWNP GERELDFWRKITRFKEAASWTL EAL EEAGSTARRRVWLEDGRR TCEILSVLCTSSLSSNCASLDCV TYKALSTTRLYDSVYWNKKPE RSSSPATEQSWTENDFDKREE GFRR\INYSSELKEEARTHGKEVI NLEKK\LDERLTRITNAEKS LKD LMELKTMARELRDECTSFSSQF DPLEERVSVMEDQMNMK\QE EKFREKRIKRN/EKQSLQEIWDY VKRPNLHLIGVPESDRENGTKL ENTLQEIHQENFPNLARQANIQI QEIQRTPQRYSSRGATPRHIIVR FTKVEMKEKMLRAAREKGRVT HKGKPIRLTADLLAETLQARRE WGPIFNIKEKNFQPRIAYPAKL SFISEGEIQYFADKQMLRDFVTT RPALKELLKEALNMERNNWWYQ PLQKHAKW
23551	53919	A	23686	73	327	GALQPTAALWEPLSGLAKAAA RSLSLQGGVEGDARAGTGAAR GACGPAGVPGGRGLGGPALGA AGRPGP*LPSRGAGLGTAAARHA

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23552	53920	A	23687	322	402	DQEPTNSGHIGNLEQCLGHGYQR*LFP
23553	53921	B	23688	545	3063	
23554	53922	A	23689	1	579	MKHEKRDRC AELTAILLNEQAS PMCTIVLGYTGTSTITLPRTSCH FAPRLSNSQQHSSYQVGHKPES YCVRNWWVLGLTDFKNEAAD PHNSGGQLASPSGSRTGAAGG\ VPASPAPCARTPQPLGGRWDW AP\GTGGGIRRGSGCTGTHGG GGRLRHGGLQSGGLPRGKAAK ARREIESSAGYSNSSSKCSII
23555	53923	A	23690	399	592	KCIHFPGPTPKFVCGVIVVTAVP /TFGM*TVYV**LPFSILAQNVG *RDDCDPGWKLNLFYAKKKK
23556	53924	A	23691	3	268	DRV/RPLRKNFQRNDQTAFTV HENPLLC SYRCWYPGKQEQQK IKPQRGGKNRAEKLETLSRAP LLFQRNAVPHQQRNKAGWRM TLTS
23557	53925	A	23692	29	484	CSFFLVSMVFTFWHDFAAAGTS CSFPCLVLSFRSSFRAGLVVTKS LSICLSVKYFISSSLMKLSLAGY EIVG*KFFSLRMLNIGPHSLAC RVSAERSAVSLMGFSLRVTRPF SLAALNIFSISTLVNLTIMCLG VALLEKYLCGILCVS

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23558	53926	A	23693	182	2076	MQEWLRLTARKTELSRDSRSC GQLKTSLLISLLVESTQGRH*SF L/VWTQTHSGDGWRVAKAW RPKYHDTQLGGEKEEPQGHHA SDCRWRAQPHCRTLSAAVVNV AGFTVTFELRCLTLMKMREKD HHLCDNDIVLFPPDTAFPLDCL LSCIHSTVHGLLRWNAIQYLAS RSESHPERSEGGTPDRNGHPAL SLASFNGAQQDRRTVQSLGEKP GLPEEMAAFMAGTEKEQNELG IEFFQLIIPASKRTHSENAIFS GDDTECSRSGQSPPSYSRGP RRTFILATQPLCSKEAQTSPHEQ PTRTEKNRGSHLYHKSPCDHAS PGMSVTMSGMQQALPRQLTTL TFYPPAFRSIKIFRIMLKTEMLH THARSQEALLKDSSKTMLHSTL PSCVRKSNYHHRERKIKTKEAF PAKIHRSRNQGMKVEVAPLTIT SSDPLAEFLLPVTVTLCSASLEV LAPEGGMSPGDATMIPLNWK LTLP PGHSGLLLPLSQQVKKRV PVLVGVIDLDYQDEIDYYSSMK ERSSSPATEQSWMENDFDELRE EGFRRSNYSELREEIQTKGKEV ENFEKNLEECITRITNTEKCLKE LMELKTKVRELREECRLSRSC DQLEERVSAEDEMNEMK
23559	53927	A	23694	933	1118	RVERRRLQTIKLLRATGGNSNQ RQRS*KL*KKFRMYN*NNQY REVLKGADGAESQGSRTT
23560	53928	A	23695	2	250	WCHTKLDGLSLFGESVALEEA GGQTALWLMRFLSRKANYVD KITTREVGHRE*LMSSRLHSR* WAASSVCSSCVLLPSSHS
23561	53929	A	23696	1017	1230	
23562	53930	B	23697	62	1069	
23563	53931	A	23698	216	582	ILVPTLFWLGEFLLRDPLL*W ASI*G*PD/AFSLAALNIFSISTL/ RESDNYSWSCSSRGVSL*RSL YFLNLNVGLPCQIGEVLLDNIL QSVFQLGSILPVTFGYTQMQI WFHFIHFIFHH
23564	53932	A	23699	434	681	TLACLARLGKFSWIISCRVFSNL VPFSLSLSGTPIRRRFGLFT*SHI SWRLCSFLFILFSLNFPSTRFISFV SSSITDTLSSS

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23565	53933	A	23700	290	1231	RSFRAIGEVGSIRGWGGGYAAQ LQSPSRLPVLGGGKKGSSRGV GQGSSRAEVGLGSQRERSGTG AEAAAAAAAAQLIAGTGSSLPYQG PGQNQTAIAPTCAPLSPCKAAA VIMGNIFGNLLKSLIGKKEMRIL MVGLDAAGKTTILYKLLGEIV TTIPTIGFNVETVEYKNISFTVW GCGVARDK\IRPL\WRH\YFQNT QGFDILWSDSN\DR\ERVNEA\R EEL\MKNAGAETSLRDAVLPFL/ FGNKTDLRNAMNAAG\IQDKL G\LHSLRHRNWT\QATCATRG N\GLYEGHLHWLANSVPKQEVES RTALT KHPNRP
23566	53934	C	23701	164	208	
23567	53935	C	23702	1	381	
23568	53936	C	23703	43	276	
23569	53937	C	23704	1	462	
23570	53938	C	23705	38	121	
23571	53939	A	23706	77	202	QKNYTQRPLPLHGLLELEVTCT CWSWQPLLEPLELRPLSD
23572	53940	A	23707	123	209	
23573	53941	C	23708	1	411	
23574	53942	A	23709	1400	1809	SSNPLSRPPLPTVTPCPLLRLSL LRACCCCLFLPLRFFSCPLLCL LCFFFSVCSPAHNKFKMPKPQW SGIPTGPPPSGSCFKCQKSGHW A\RNACSPGFLLSHVPSVWDPT GNQTVQLAWQPLLEPLEL*PRLSD
23575	53943	B	23710	76	358	
23576	53944	B	23711	1	606	
23577	53945	C	23712	272	388	
23578	53946	A	23713	1	259	PGVRGAQGGPSIPROCEESAIGP KFAWIISSFWKQGMFNMEAP SSLFFVNMCAVKKQTTWGRPD RGFIWQPLPELEL*PRLSD
23579	53947	A	23714	684	917	GDFGLRQWGFLNIQSCHLQTGT I*LPLFLIEYPLFLSPA*LPWPELP TLCCIGVVREGISVLCQFSKGM LPVFAHSV
23580	53948	A	23715	618	683	
23581	53949	A	23716	306	710	DRVSLTLPRLGVQWPDGSLQP RPPGFKRFYCLSLPSS*DYRHEP LLPAYFFPYRIIGWSRL
23582	53950	A	23717	2	88	

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23583	53951	A	23718	972	1967	FPPGRGRGPGRPAGCSRGRARA CPKPVDPVHKRPMNAFMVWSR AQRKMAQENP\QMHNSEISKR LGAEWKLLTESEKRP\IDEAKR LRAMHMKEHPDYKYRPRRKP TLLKKDKFAFPVPYGLGGVAD AEHPALKAGAGLHAGAGGGLV PESLLANPEKAAAAAAAAAAR VFFPQSAAAAAAAAAAAAAGS PYSLLDLGSKMAEISSSSSGLPV LNMPNMHINSLGKNLALNLFV YNDANSMLDLCYDGDGKGPI CFCATQGYEDIFKAGYGSVVD YYNDGSDLTTPLEIATVIPTFSN HPLMSQRPSTWRQNPPLAKRLP LTEDSDGDDH
23584	53952	A	23719	2	144	RPQRRP/LPPPTGSPLKHPGGAS GAAGAPIGEPQHPGAVVSVRA WSLCS
23585	53953	A	23720	219	897	PGRAGGTLGLGSRRDGTREKG VEETPHRLHARTDTPAGCCGS PIGAPAAPEAPPFCFEGPRWVE GVKKASPPLPAELIGWLVNFPL ARPVRRPSPGPPRRPPEGVCG SWPGRSEGERGKAKNTAESTPR QNLHRKYTHIVTHYQRNRKGQ NISFSLVCEFHPSLADWTTVTA LTWTSPKDNSLTEESWLREGN VHRGMDEYVRAQSFLILMTLE NSGGSVVSK

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23586	53954	A	23721	937	2730	TNPHCHDHYHHHHHHCHHCH HHHHHCHHHHHYHHHHHCRDH HYHHHHHCHHCHHHHHHCHH HHYHHHHYHHHCHDHHYHHHH HCHDHHYHYHHHHHCHDHHYH HHHHCHDHHYHYHHHCHDHH YHHHHHCHDHHYHHHHHCHD HHYHHHHHCHDHHYHYHHHC HHHRYYYYHHHCHHCHHHHH/P HHHHHHHHCHHHYHHHHHC HHHHYHHHHHCHHHHYHYHC HHHHYYHHHHCHHCHHHHYH HHHHCHDHHYHHHCHHCHHH HYHHHHHHYHDHHYHHHHHCH HCHHHHHHHH\DHHHHHHLCHH HYHHHHHHHHHHYHHHHHH HLHCHHHYHHHHHHHHHHY HHHCHHCYHHHYHHHHYHCH HHYHHHHHYHPYHYHQHHHH YHPHHYHHHHYHCHHHHDYH HPHHCHHHHHYHQHHYPTII TTTITTTITTTITVTTTTFTTTNT TAPTTTPVTAITTTTTTTITTT TPITITTITNITTTTVTTTITTTF TTTIHPYHHHHHHHPVITTTIT TATITTTTSITSITTTTIVTTII TTTAATHHHYHPYHHYHHHH HHHHTHSYHHYHHHHHHHCF HYHHHHYHHH
23587	53955	A	23722	2348	2571	
23588	53956	A	23723	4919	5142	
23589	53957	A	23724	2	370	
23590	53958	A	23725	588	701	
23591	53959	A	23726	295	521	
23592	53960	A	23727	2837	3061	
23593	53961	A	23728	272	436	
23594	53962	A	23729	239	514	
23595	53963	A	23730	105	367	TGRPPELLHLRSLSPPLL/CSSP/ TPPPQLPPPPVSLASGYPLLHPL ARYPACPLPPRRARTEQRGGEQ PGVGASPLPIPGRWPGTEAT
23596	53964	A	23731	999	1145	
23597	53965	A	23732	1084	1893	

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23598	53966	A	23733	1605	2296	HSIHSSVDHPENRIYRRKIEELS KRFTAIRKTKGDGNCFYRALAI PYLESLLGKSREIFKFKERVLQT PNDLLAAGFEEHKFRNFFNALR AGRAQFYSVVELVEKDGSVSSL LKVFNDP\GASDHIVQFLR/LCF TSAFIRNRADFFRHFIDEEMDIK DFCTHEVEPMATECDHIQMTA LLQALSIALQVEYVD\GWIPALT QHVFLAATPSVYMLYKTSQY NILYAADKH
23599	53967	A	23734	529	1830	AGYGDRTMLARKSIIPEEYVLA RIAAENLRKPRIRDRLPKARFIA KSGACNLAHKNIREQGRFLQDI FTTLVDLKWRTLVIFTMSFLC SWLLFAIMWWLVAFAHGDIYA YMEKSGMEKSGLESTVCVTNV RSFTSAFLFSIEVQVTIGFGGRM MTEECPLAITVLILQNIVGLIINA VMLGCIFMKTAQAHRRRAETLIF SRHAVIAVRNGKLCFMFRVGD LRKSMIISASVRIQVVKTTTPE GEVVPQHLDIPVDNPIESNNIFL VAPLIICHVIDKRSPLYDISATDL ANQDLEVIVILEGVVETTGITTQ ARTSYIAEEIQWGHFRFVSIVTEE EGVYSVDYSKFGNTVKVAAPR CSARELDEKPLPSLFRPSQKSEL SHQNS\LRKRNS\HRRNNFHRRN N\SIRRN\SSLMVPKVQFMTPE GNQNTSES
23600	53968	A	23735	968	1243	
23601	53969	A	23736	541	1010	SVTSCLKVTSVCLTSAAASCRH RRSVEEYLV*KLPM/WSRRRK AAALTES/V/CIVFWLASWMMS RWLHYPDWVTHIAQQVLMNVV SVMQADCRMNLLIFLRWLMR KIFHNILRHFSQLLNPITRPFS WILRPF
23602	53970	A	23737	766	1910	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPPHCSFSICFVI CSRTLILKGSSLMYVFCLPNTAI GGSSRVDRCAATSRGSSRVDL TL*KYSLVGPSVPLVSSV**SDW PLKLLMTMMS

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23603	53971	A	23738	581	1434	KLPMGVAVVKLLHLPKVIIVFW LASWMMSRWLHYPDWVTIIAQ QVLMNVVSVMQADCRMNLEI FLRWLMRRASDICSSIHGD*EPL L/YAVFGKQNTYIRLEPFKINV EQITKHIEKLQCGGVVKQLSRR GNNQHISSTYDINRADTQVRA VNNYDIIVMSNSFNGQSEHQV WIDRKAGECLLHEYEDLVPIRD TLRLFPGGRYLPRAKHVAPSEP DPEQDEQKLRFCRHLYGKQP RSPVERVWDHGPTRIVGLIISLG PRSHSYRRSDNQGTGTVPLVSS
23604	53972	A	23739	515	774	LFPRLLSCLTTPPHCSFSICFVIC SRTLILKGSSLMYVFCLPNTAIS GTTVPLVSSV*LLVWDHGPTRI VGLIIRLGPRSHSYRRS
23605	53973	A	23740	322	763	CRMC*LFPRLLSCLTTPPHCSFSI CFVICSRRTLILKGSSLMYVFCLP NTAIVMALSPRGWRSKFGMPV EDTSLSTPAAPMVDSLIARVGV MARGNAITLPVCGRDVKSTLE VLRGDSVEKTSRVWSGNERDQ ELLTEDALDDL
23606	53974	A	23741	1	127	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEK*RRL SPLHSLMMTARKRGK*PGAGE
23607	53975	A	23742	9	437	WLGLGNWKERLGTQTRMIWS QKTARRLCRTFSGIPAYSMCI/CI GMAERMWCDNRNRHTVSSSG GNRLPNPDWAPGPPRIVGLNIS LGPTVPTRIVGLIISLGPRSHSYR RSDNQGTGTVPTRIVGLILVLGP WSHSYRRSDY
23608	53976	A	23743	766	767	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPPHCSFSICFVI CSRTLILKGSSLMYVFCLPNTAI GGSSRVDRCAATSRGSSRVDL TL*KYSLVGPSVPLVSSV**SDW PLKLLMTMMS
23609	53977	A	23744	573	1085	VCHQILTHLPALLSGARMMWD QLWRGP*RRCQQPQCGG*WH CFWATAHHSPLDSTLNLHLCLP RGP
23610	53978	A	23745	2	379	WLTRSSCSWRLPPRRKKKGAL V*PVWLPPGGVAVLLQLGCCV LQDVSCKRLCYNRKGQSEIVL MS*ITMWKLFPRPPLPFSTCIC *KTCGKRGRSK*KVDILVLSIRF SAIKLEPLDCHENAWL

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23611	53979	A	23746	575	576	TGIDSDQLNGRDWRRALSVSPA PDSGFPRCNGDEQAGI*LLGTG WAEKCHRLAFPPAGSTAGR
23612	53980	A	23747	1	723	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVCSWKERPPGNSL NVSRMVWDHDPTRVVGLIIGL GPRSHLYCRSDYQQRSTSVCG CMPAVDCCCVLLIHNILRTVM WTKYLVTAQVAPAR*PGCIRCKC
23613	53981	A	23748	1	1101	
23614	53982	A	23749	5	205	YCSSLFTAITSRAFLPDRRITT PPATSPSPFSSAMPRRISGPIWTF ATSRRT*TGTPFSLAFKTM
23615	53983	A	23750	1	761	
23616	53984	B	23751	56	2188	
23617	53985	A	23752	627	1272	
23618	53986	A	23753	448	2218	VRRQRSDPERSDARMVRFCLN YI*RKNPFILH*LFR*TLRQTKPD NSAGKCVKI
23619	53987	A	23754	171	959	AASRGPDAPGLEMAGNCSWEA HPGNRNKMCPLSEAPELYRR GFLTIEQIAMLPPAVMNYIFLL LCLCGLVGNGLVLWFFGFSIKR NPFSIYFLHLASADVGYLFSKA LFSILNTGGFMGTTFADYIRSVCR VLGLCMLLTGVLLMPAGWDE RGVRSERAWCTVETGRVHRSR VRVSRNTARDPANGLGHLLQS LGMPALEPGPTLGSAIRWEFLQ TASPQLPVQPLHPAAATPQRS RGRGRGPKARALGLGPRSTSYR
23620	53988	A	23755	664	838	
23621	53989	A	23756	2732	3007	
23622	53990	A	23757	1522	1706	CHYFACMWSGCEVYS*SAPG** C*EDLSGLVRCRCLHSNAETPI* FAANADTSRPGPFLCR
23623	53991	A	23758	537	795	ADCPLHMGRPCID*GPCRTE*P RCAVVCLLWIAAVSCLSTT/SLR TGI/DGPKYLVTAQVAPARYPGCI RCKCVAVDELASSDMRLPCS
23624	53992	A	23759	2074	2276	
23625	53993	A	23760	36	206	ECWIWCELGAELHHQP*ASSH WKSSYRQQSSLPRCRASQRTLH LLLQGWAVLGPLE
23626	53994	A	23761	444	725	
23627	53995	B	23762	1	1212	

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23628	53996	A	23763	11	972	RFSKSLD SGVQLASPSGSRTG ATGGAAHSPARAPALHSPWAV DGTRGRLAGTAGLWSPRPAFH FKVSLSLPFSCVSPFPGPPLGPS PRKHQMADDAGAGVGGRPR GPRMG/NRGGFRRGFGSGIRHQ GCGCGQGQGGRGVRGGKAE YKEWMTVTKLGH LVKDIKIS LEEIYLF SFFKTSSSLKDEV LKI MLVQKQTHTSQCTRFKAFVAT GDYNGHISLGIKCSKEVATAIC GAILAKLSIVPACRGYWG NKIS KPHTIPCKVAGCCGSLVCLIS VPRGTGIVLAPCEGDRGLRKSS PASLSPESCKDGSHSRSF
23629	53997	A	23764	2	260	LLEECRLSRCDQLEERV SAM EDEM NEMK*EGKFREKRISPKR APERSAKHGKEQPVPA AAKSC QNVNTIETRKKLHQLTSKITS
23630	53998	A	23765	3	1150	
23631	53999	A	23766	1	1521	
23632	54000	A	23767	1	753	
23633	54001	A	23768	1	3351	
23634	54002	A	23769	1	1740	
23635	54003	A	23770	1	1353	
23636	54004	A	23771	1	1932	
23637	54005	A	23772	1	1221	
23638	54006	A	23773	1	1214	MAKKQNRKTGNSKKQRASPPP KECSSSPATEENWTENDFDEL R EEGFRQSNYSELWEDIQTKGKE VENFEKTLEECITRITNTEKCLK ELMELKTKAQELRKECRSLRSR CDQQQERASVLEVLEV LAR\QL GRKRK*RVFN*EKRSNCPCLQ TT*LYI*KTPLSQPKISLS**ATS AKSQDTKSMYKNHKHSYTPPT DKQRAKS*VNSHSQLLQRE*NT *ESNLQES*NWISSLHLIQSIQD GLKT*TLDLKPSKP*KKT*ALPF RT*AWARTSCLKHQKQWQQR T KLTNWI*LN*RASA/PAKESTV/S SEQATYNMGENFHNLLI*QRAN IQNLQ*TQTNLQEK NKQPHQKV GEGHQQTLLKRRHLCSQKTHE KMSIITGHQRNANQNHNEIPSH TSYNGNH

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23639	54007	A	23774	1157	2085	QGRPTDFADFGTTIKQDFRLLG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLIAAGTTGFPTGKRAVS ATQLMTQFSPAREQSWRKN/DF DELRKE/GFARSNYS\EKCLKEL MELKTKARELREECRLSRSCD QLEERVSA MEDEM NEMKREG KFREKRIKRNEQSLQEIWVYK RPNLRLIGVPESDAENGT KLEN TLQDIIQENFPNLARQANVQIQE IQRTSQRYSSRRATPRHIIVRFT KVEMKENMLRAAREKGWVTL KGKPIRLTADLVAETLQARRE WGPIFEPP
23640	54008	A	23775	1	1707	
23641	54009	A	23776	1	1899	
23642	54010	A	23777	1	2781	
23643	54011	A	23778	1	831	
23644	54012	A	23779	1	3264	
23645	54013	A	23780	1	882	
23646	54014	A	23781	1	1853	
23647	54015	A	23782	1	550	
23648	54016	A	23783	1	831	
23649	54017	B	23784	64	3436	
23650	54018	A	23785	1	1422	
23651	54019	A	23786	1	773	MGKKQSRKTGNSKKQSATPPP KERSSSPATEQSWTENDFDEL EEGFRRSNYSELQEETQTKGRE VENFEKNLDECITRTTNTKCL KELMELKAKAWELREECRLSR SRCNQLEERVSVMEDEM NEMK REGKFREKRIKRNEQSPQVIRD YVKRPNLRLIGVPESDGKNGTK LENTLQDIIQENFPNLARQANIQ IQEIPRTS/QRYSSSEHSIIGLIGR FPS*RTDMFRAPKKREQKRNNR KIQKEEGGRTAPTGI
23652	54020	A	23787	1	2775	
23653	54021	A	23788	1	2712	
23654	54022	A	23789	1	1590	
23655	54023	A	23790	1	547	MGKKQNRKTGNSKKQSASPPP KECSSSPATEQSWTENDFDEL EEGFRRSNYSELREDIQTKGKE VENFEKNLEECITRITNTKCLK ELMELKTKARELREECRLSSR CNQLEERVPA MEDEM NEMKE D/GNRYDDRRQ/RKEEIMIKSW RFCCRHLIRVVRGWGPSKYLWI TMVVTLAGNPQ
23656	54024	A	23791	1	710	

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23657	54025	A	23792	1	895	
23658	54026	A	23793	1	1938	
23659	54027	A	23794	1	1413	
23660	54028	A	23795	985	1219	LCSGSVERCTESYLHSSHCLVQ QAGVTGDEGGSCY*DPPSHHRS HPRKLKKLCEQEFVTSAPWRK CRSLHGRFPGLP
23661	54029	A	23796	1	3570	
23662	54030	A	23797	1	634	
23663	54031	A	23798	1	4551	
23664	54032	A	23799	1	4721	MHPSQRTPYQSRSPATIFATVST FKSHKSNLETKHPQQVPLSSLG LAANISSEDIESEAEDNGKWES VDRTSFFPALTSFQQSMIHKKI MTVFKSVEPEDGLGRPTLAFHE DRCQLSIQNSLDAGGGCPSMA APPAEVHELASGLISAAALLSP AASGRVSKHQHIPTGFDPDKA LHKGKLTTRKDIYTENPSVHHH HQRPKVDKTTKMGKKQNRKT GNSKTQSASPPPKECSSSPATEQ SWMENDFDELREE

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23665	54033	A	23800	1	2152	MDILGWASRAHKWKGRATGT HVFNLMREYLISLQCCASEQAA SPEHGASFRVWKSGLGFQKLILS LICPQCLQSLTRETWMRFKSKK TKGPDRLRLVMDANKWEFRRH ALRPALTFFPNEGDDLGV EALPV ALPPEAHVGGVVLPAALVRGA HGEQLPAIPGPEEFALPAVQAR AARPERQVVVIVVNEAGVDPA GVEGLAPVPVLP GVRLEATAPK QPPRLPARLRAPLPSGRKLNK CPRLRWGFFVQDGDGTELACL SEG DGGCCQEAPLDHRPRLRG LAGSAGAREAREPRLRPGDWG NRIARVRAPEEAAAALSRPARV AAALAKTHRREHRARSQKLVM SSVQQGKLTTRKDIYTENPSVH HHHQRPKVDKTTKMGKKQNR KTGNSKKQSAFPPPKECSSSPA MEQWTWTDNDFDELREEGFRGS NYSELREDIQTGKEVENFEKD LEECITRITNTEKCLKERMELKT KARELREECRLSRCDQLEER VSAMEDEMNMKREGKFREK RIKRNEQSLQEIW DYVKRPNL LIGVPESDVENGTKLENTLQDII QENFPNLARQANVQIQEIERMP QRYSSRRATPRHIIVRFTKVEM KEKMLRAAREKGRVTLKGKPI RLTAVLSAETLQARREWGPINF ILKEKNFQPRISYPAKLSFISEGE IKYFIEKQMLRDFVTTRPALKE
23666	54034	A	23801	1	2109	

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23667	54035	A	23802	1	2544	MSVHSWKPSWIRPIRSLSPKRPL GTQGTSEVPPDTHICQTKFHSL SGPLLLSVHPVGKLSAVVGRVF IHILSQRERRRRRVISAFPSEVPG SSHQGVDPDSGCRSVGAHPVREP KQGEALPHSGSPREGKLTNRKD IHTKNPSVHHHHQRPKVDKTT KIGKKQNRKTGNSKTQSASPPP KECSSPATEQSWMENDFDEL EEGFRQSNYSELRKDIQTKGKE VENFEKNLEECKTRITNTEKCL KELMELKTKARELCEECSRLRS RCNQLEERVSVMEDEMNE RECKFREK\RIKRNEQSLQEIWD YVKRPNLRLIGVPESDVENGTK LENTLQDIIQENFPNLARQANV QIQEIQRTPQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFPSAPHHT YSKIDHIVGSKALLSKCKRTEII TNYLSDHSAIKLELRIKNLTQSR STTWKLNLLNDYWVHNEM KAEIKMFFETNENKDTTYQNL WDALKAVCRGKFIALNAHKGK QERSEIDTLTSQLEKEKQEQT HSKASRRQEITKIRAELEKETQ KTLQKINESRSWFFERINKIDRP LARLIKKKREKNQIDTIKNDKG DITDPTEIQTIREYYKHLNAN KLENLEEMDTFLDTYTLPRLNQ EEVESLNRPIGTSEIVAINSLPT

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23668	54036	A	23803	1	1886	MKENFKHRHVVAFISSQEAQE DSREEEDRLESIFYFLFLELSY KTTGLNREPTVSLNSKSGTPMD QNEHSHWGPBAGKQGCASRSEL RIILVGKTGTGKSAAGNSILRKQ AFESKLGSQTLTKTCSKSQGSW GNREIVIIDTPDMFSWKDHCEA LYKEVQRCYLLSAPGPHVLLLV TQLGRYTSQDQQAQRVKEIF GEDAMGHTIVLFTHKEDLNGG SLMDYMHDSDNKALSKLVAA CGGRICAFNNRAEGSNQDDQV KELMDCIEDLLMEKNGDHYTN GLYSLIQRSKCGPVGSDERVKE FKQSLIKYMETQRSYALAEAN CLKGALIKTQLPKVDKTTKIGK KQSRKTGNSKKQSTSPPPKERS SSPAMEQSWTENDFDELREEGF RRSHYSELPEDIQTEGREVENFE KSLEECITRITHTEKCLKELMEL KTKARELREECRSLRSQCDQLE ERVSAMEDEMNMKREGKFKE K\RIKRNEQSLQEIWDYVVRPN LRLIGVPESDAENGTKLENTLQ DRIQENFPNLRQANGFCRFRN HHQTGFSPAGANQRGPLAATLS GPGGEGQSAVARLTGEKKNHP GAQYANRLSPRVGRFINRSWH DRFPDWKAGTGLKSAIFAW
23669	54037	A	23804	1	4134	
23670	54038	A	23805	1815	1849	

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23671	54039	A	23806	1	4016	MGKKQNRKTGNS\KTQSAFP PKECSSSPATEQSWMENDFDKL REEGFRRSNYSEL\REDIQTGK EVENFEK\NLEECIT\RITNTEKC LKELMELKTGSRNYVKECR\S LRSRCDQLEERVSAEDEMN MK*EGKFREKRIKRNEQSLQE I\W\DYVK\RPNLRPIGVSESDG ENGTKLENTLQDIIPENFPNLA RQANVQIQEIQRTPQRYSSRRAT PRHILVRFTKVEMKEKMLRAARE KGQVTLKGKPIRLTADLSAETLQ ARREWGPIFNILKEKNFQPRISY PAKLSFISEGEIKYFIDKQMLRD FVTTRPALKELLKESLNMERNN WTSKQIIQEDGYSEEGWLCRA VIYSHTLQAIMAIVKATGNLQT DFANPFHTDDARQQFAMSYTV VGQGALPEDLSRCHLQTEAVQ RHPESLGCPLDLLHGMPVSSCF GYPQDTSSTV
23672	54040	A	23807	2059	3153	
23673	54041	A	23808	6	188	
23674	54042	A	23809	3	1014	VACRPLPRRRAQPATFIPRVAV KMALVASVRVPARVLLRAGAR LPGAAFGRTERAAGGGDGA\RP \FGSQRVLVEPDAGAGVAVMK FKNPPVNSLSLEFLTELVIS\LEK LENDKSFRDVILTSD\RPGVFSA GLD\LTEMCG\RSPAHYAWVLE RPVQELWLRLYQSQL\VLVSAI NGA\CPAGG\CLVALTCDYTLA AGNPRYCIGLNE\TQ\LGIIAPF\ WLKDNPWRTPIGHRAAESALQ LGLPLPPPAEALQVGIVDQ\VVP \EEQVQSTALSAIAQWMAIPKP MAHK\LTAKIMRKGQPPAWS RKGYADVQNF\VSFISKDSIQKS LQMYLERLKEEG

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23675	54043	A	23810	1	2665	MTTSIRQFTSSSSIKGSSGLGGG SSRTSCQLSGGLGAGSCRPGSA GGLGSALGGSSYSSCYSGGG GYGSSSFEGVDGLLVGGEKAT MQNLNDRLASYLDKVRALEEA DTELEVKIRDWYQRQAPGPAR DYSQYYRIEELQNKPPPSDDL TLPSPLILTATVDNANILLQNDN AHLAAADFRTKFETEALCLSV EADINGPCRVLDELTLARADPE MHLENLKEELAYLKKNHEEMN APRGQVGGEINVMGAAPGVD LSRILNEMREQYEKMAEKNRK DAEDWFFSKTEELNREVATNSE LVQSGKSEISELRCTMQALEIEL QSQLSMKASLEGNAETENRY CMQLSQIQLIGSVEERLAQLL CEMEQQNQEYKILLDMKMRLE LEITTYHRLLEGEDAQTVQHTP GSPCVPEWAHDCSLPAQLDE WSCQAQRGICGHRRENCWERIP SQSCFYRPTARSLTSLGTMST CSHQFTSSRSMKGSCSIGGSIGG GSSRISSVLAGGSCHAPSTYGG ASCLGGGGYGGGFGSSSFASG FGGGYGGGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLDKVRALLEANAD LEVKIRDWYQRQRPSEIKDYSP YFKTIEDLRHKIIAATIENAQPIL QIDNARLAADDFTNYEHELAL QQTVEAGVNGLCREMLALRGQ
23676	54044	A	23811	222	548	TLPCGDHHHSQDPARLPSWHD LLQERSEKCGSQDWQRDSVQP GVSYQFCCVPWPAGRSPQPRH CWGCCGTEASYDSGI*SLSTPG GGQLQGSV*GPDGAGLQNSHR
23677	54045	A	23812	2	165	
23678	54046	A	23813	1	665	
23679	54047	B	23814	1	1673	

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23680	54048	A	23815	1	331	ARQLRTSAMTMPVNGAHKDA DLWSSHDKMLAQPLKSDVEV YNIKKESNRQRVGLELIASENF ASRAVLEALGSCLNKNYSEGYP GQRYYGTEFIDELETLCQKRA LQAYKLPQCWGVNVQPYSGS PANFAVYTALVEPHGRIMGLDL PDGGHLTHGFMTDKKISATSI FFESMPYKVNPDGTGYINYDQLE ENARLFHPKLIIAGTSCYSRNLE YARLRKIADENGAYLMADMA HISGLVAAGVVPSPFEHCHVVT TTTHKTLRGCRAGMIFYRKGV KSVDPKTGKEILYNLESLINSV FPGLQGGPHNHAIAAGVAVALK QAMTLEFKVYQHQQVANCRA LSEALTELGYKIVTGGG/CVISG GAGKPG*FSHQDGTGTSQDGG RRPFLHHTLSY
23681	54049	A	23816	3	1709	SHPTPRETPTGVEGQATPSVLG AAPASQAKATPTLGRPHASDR GEVAQLDEWSCQAQRGICGHR RENCWERIPSQSCFYRPTARSLT SLLGTMSTCSHQFTSSRSMKGS CSIGGSIGGGSSRISSVLGGSC HAPSTY/GGGLCVSFSRFSFGGA CGLGGGYGGGFGSSTNFWG\GF GGGYGAGLGAGFGGGLGAGL GGGFAGGDGLLVGSEKVTMQH LGDRLASYLDKVRALLEANAD LEVKIRDWYQRQRPSEIKDYSP YFKTIEDLRHKIIAATIENAQPIL QIDNARLAADDFRTKYEHCLA LRQTVEADVNGLRRLDELTL ARTDLEMQIEGLKEELAYLRKN HEEMLALRGQTGGDVNVEM DAAPGVDLSRILNEMRDQYEQ MAEKNRRDAETWFLSKTEELN KEVASNSELVQSSRSEVTELRR VLQGLEIELQSLSMKASLENQ LAEETKGRYCMQLSQIQLIGSV EE\QLAQLRCEMEQQSQEYQIL LDVKTRLEQKYCHPTAALLEG EDAHLSQQASGQSYSSREVFT SSSSSSSRQTRPILKEQSSSFSQ
23682	54050	A	23817	2	365	

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23683	54051	A	23818	1	464	RRWRICSTWTRSFATAWLPPAP SANFPRTDRSQGDRGAPAGFAL APILEFFLWDTSQKFLQKPHCF MHGRERAKMGRRAQQESAQA ENHLNGKNSSLTLTGETSSAKL PRCR/QGGWAGDSVKASKFRR KASEEIEDFRLRPQSLNGSDYG GDIP
23684	54052	A	23819	384	805	
23685	54053	A	23820	3	392	MKYSAIQTL DGEIDLKLLTKVL APEHEVR*VQWWQQFPGLSTL AIPINPAELPGLALCLP*RPWNG REKVSLQLREKALSLSYPAPKF L\EDDVGWWDHLLFTEVSSEV LTE\WDPLQTEKEDPAGQARHT
23686	54054	A	23821	63	785	GPIRGPWGPGFGGWGGATPPAP TSLRRLRAAGLAPRRRAKMGR RAQQESAQAENHLNGKNSSLT LTGETSSAKLPRCRQGGWAGD SVKASKFRRKASEEIE\DFR\LRP QSLNGS\DYGGDIP\MPDLEEVQ EEDFVLQV\AAPPS\QIKRVMT YRDL\DNLDLMKYSAIQTL DGE D\IDLKLLTQK/VLAPEHEVRER NPSWQDDVGLGTWGPICSTEV SLRRSFTEWDP\LQTEKEDPGG Q\ARHT
23687	54055	A	23822	1	441	MSFNCSTRNCSSRPIGGRCIVPV AQVTTTSTTDADCLGGICLPSSF QTGSWLLDHCQETC/CGCQPLG GISSVCQPVGGISTVCQPVGGV STVCQPACGVSRTYQQSCVSSC RR\PAKCVGASERIKTPRPASCF QDLPACCLSLNSSS
23688	54056	A	23823	1	538	PTRPLQATCSPLSDIMSFNCST RNCSSRPIGGRCIVPVAQVTTTS TTDADCLGGICLPSSFQTGSWL LDHCQETCCEPTACQPTCYRRT SCVSNPCQVTCRQTTCISNPCS T\PTAGRSP/CVSSGSQPLGGISS VCQPVGGISTVCQPVGGVSTVC QPACGVSRTYQQSCVSSCRRTC

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23689	54057	A	23824	832	1885	AEWDAADKAHVGPGRSPRQPL PHVGRRRAAHTTGRGRRTAGC APAPARTLCILSILGPWCVLPHL PTLCLGQAQAASCSQGAHGC AGCSCT/GTSASHPV/CCKCPLH PVCTLADVHGCITSGFSVISLPQ TCAPWTSWRKWSLSDSWQVD ACPESCEPPCCATSCCAPAPCL TLVCTPVSCVSSPCCQAACEPSP CQSGCTSSCTPSCCQSSCQPA CCTSSPCQACCVPVCCPKPVCC VPVCCPKPVCCPKICVPVCSGA SSSCCQSSRQPACCTTSCCRPS SSVSLLCRPVCRSTCCVPIPSCC APASTCQPSCCRPASCVSLLCRP TCSRLSSACGLSSGQKSSC
23690	54058	A	23825	1	3097	MDEKRTRLQPEEADVPAYPKV ATVPQSEKKPSKYPLCSADAAV STTPGSPPPPPPLPEPPVLKVLS SLKPAAPSPATAATTAATAA ASSTASSASKTASPLEHILQTLF GKKKSFDPSAREPPGSTAGLPQ EPKTTAEDGVPAPLLDPIVQQF GQFSKDKALEEEEDDRPYDPEE EYDPERAFDTQLVERGRRHEVE RAPEAAAAEREVEAYDPEDETI LEEAKVTVDLPLNRMCADVRR NSVERPAEPVA
23691	54059	A	23826	67	442	VKFFCLYLQSNKPMKNFKQG SNNQLLMRSFWLLCGIDYKKPP PPPAPGPESVAPALSGPPPAHS RGPRVVRA\PPPPGPRHRSPAE PPPPPGTEPSVATYSIKASKRVS QQDRCHNLMKSQE
23692	54060	A	23827	3	657	GERSRRWGPACGPGAAEKTTP CDAGAAGAAPGAPGHAGNPGL GSGPDYD\GEATCMHLHPDDPC PAGAGCCPGSFEVAFPDAAEK MKKSLHSLKKGCYSRVCDLPL DCPGCDSDSGRQAMFSCIVNFQ LPKEESPIPGSSQEESGSPHSEC DSVGVDRGQVRSLQAPNH SLVLLVTSLFQETTKSHLNRTN DAVSPRKFKRLGALYWGVKVEA
23693	54061	A	23828	141	246	
23694	54062	A	23829	1	609	
23695	54063	A	23830	1619	1752	

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23696	54064	A	23831	54	470	CSTMNPSEMQRAPRRQRHRS RAPSAHKMNRVMSEEQMKL PSTKKAEPPTWAQLKKLTQLA KKK\LENTKVTQTPENMLLAAL KTVSTVSAGVPSSEESDHRER AMMTTVVLSKRRGKCGEKKEI SDCYCVYVERS
23697	54065	A	23832	213	572	IQWYPYQDTIDFLHRIRKNFFKF HMEPKKSLHCQDNPKPKEQSW MHHTT*LQTMLQGYSNQKRMP PHLGSEERLCPAAPSGR*GAPLP GRCAIFQV*SDSLSAGVPNSSEE TATIENGP
23698	54066	A	23833	296	583	
23699	54067	A	23834	2452	4557	
23700	54068	A	23835	3	266	
23701	54069	A	23836	31	499	ARVTAAVSAAAVAKRVWRDG FDCSGYSLTTILLVQPTKRPE GRTYADYES\VNECMEGVCKM YEEHLK\RMNP\NGPSI/THNTTS QLFDFID\DLADLSCLVYRA\DT QTY\QPYN\KD WIKDEDPTVLLS SGKAQQAREIIVVGS HWGGWG GA WDTGV
23702	54070	A	23837	3	323	
23703	54071	A	23838	366	892	PCVYSQFPAGEQCLKLHSPA EASPPALEASEAQTRKAPECGSV PEVAGGSCPCLLLCLPRHQAVP TQGP GTYSPCTSHQPHIFRPAA PHHLG LLQNP HNAASCIQCLYP AGVATTMPRRKAEGDAEGD/K AKVKDEPQRRPAKLSAKPAPPN PEAKPKNAPGVTL SLRG TATRF

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23704	54072	A	23839	201	1412	LWKSRLTFKLAMSRVSPPPPA EMSSGP\VAESWCYTQIKVVKF\ SYMWDPSITLAFCREEMG\EV\ KSSTFSSGANDKLKWC\LRVNP KG\DEESKDYLVTFTCYLVSC\ PKSEVRANFKFSILNAKGEETK AMESQR\AYRFVQGDWGFKK FIRRDFLLEANG\LP\DDKLTL FCEVSVVQDSVNISGQNTMNM VKVPECRLADELRGLWENS\RF TDCCLCVAGHEFQAHKAILAA RSPVFSAMFEHEMEESKKNPSL KSMDEV\PEVFKE\MMCFIYTG KAPNLTKMA\NDLLAADKYA L\ERLKVMCEDALCSNPV\SVEN AAEILIL\ADLH\SADQLKTQAV DFINYHA\GDVLETSGWKSML SHP\HNLVAEAYRSLAS\KQCPF LGTPTQNALKQSLKILLCC
23705	54073	A	23840	1	575	FRHRKIIY*NLLKQEDSINVTM TSIRASVDILIPDPPPKDDEMDT DKQEKKEVPKCGFLPGNEKVL SLLAMVKPEVWTLKEKCIVVIT WIQHLIPKIEDGNDFGVAIQEK VLERVNAVKTKEAFQTTIS/K MDYRALVHERDEAAYGELRA MVLDLRAFYAELYHISSNLEKI VNPKGEEKPLMYPTRD
23706	54074	A	23841	1	1092	
23707	54075	A	23842	130	397	EGVHSQVNLFPKGNQTHVPAS HGTDSALPPTLQMDYRALVHE PD*AAYGELRAMVLDLRAFYA ELYHISSNLEKIVNPKGEEKPF
23708	54076	A	23843	20	334	VRLPGSTHAGGDRSSMAKPCG VRLSGEARIQVEVLRQNLQFEA \EEFLYRFLPQKIIYLNQLLQEDS LNVADLTSLRAPLDMPIPDPPP KDDMETDEQEKKEGK

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23709	54077	A	23844	1	898	MKQKVAAEAGRGQILQAKVLP SGTLSRLAEALFGVQTYDQDA YGFLTPSAQSMKVFCCLWKL CKQLEGDVAQGLAIDGDVKKH SGLEWQVETIQNLVDSYMAIV NKNMQDLMPKTIHLMINNTKE FIFSELLANLYSRGEQNTLMGE SAEQAQGRNEMRRMHVLR APSIIGDIKTTIVSTPTGSPKSSPT TQCRLPAVPPARPGLRSPAPGPL PAASTLGEAPVVPSTPGASPDPL GPPPQVPSRPSRGPQPDMP GLAGDLTVGFLEPTLQAIHRS LLLRPANSPESQS
23710	54078	A	23845	99	429	FSDAAAVARQPSFGKALGAPQP ADTQPTSPMPRCPPGGSETPK KAAGKDKSSDK\KNKTKKQMK AEKGGKEKQAEVADQETKDL AENGDTENKESPASDEATEKDT KSD
23711	54079	A	23846	1	390	TWMFIAAVFRIASTWKQPRYFS VGKQDQKRTSRKLQQTCRGA *WLEGKLTNRKE*HQYQRKGH PRKNTIQRSPTLKTKANIILNGQ KLEAFPLKTGTRQRCPLSPLFN MVLEVLARSIRQEKEIKVFK
23712	54080	A	23847	522	733	ASAADTQANRVWSGPP/RKLQ QTCS*GS*LLQGKLTNRKDIHT KTPSVHHHHQRPKTLNQQRSK ETKKAIT
23713	54081	A	23848	46	330	
23714	54082	A	23849	1	873	MAEKKDPTKEPEKKHLLAWM NKLLYELDPKYKNDSENTDGS VVHKIIACDKPVSPPPSAMIGSF PRPSSEADAGAMLCVQPARTKI LGILGLKATSLQYLRHTGKPL LPKIDESTKMGRNQPKKAENSK NQNASSPPKDHNSPVRQNR MQNEFDELTEVGFRDRSSKR NSVVIKALPRHLINQGRSQEWR LGIGARDSPKTSGRRGKSPAGP NRTTVPEDQA/GSRPRPIPTRQ ADPRTPPTRSEKE/AQLSLATD QMCPSLAPLIK*PQES**WKQRI SI*MEHL
23715	54083	A	23850	1075	1350	AIITANVFKFVSIDRGLVCNMEL EGSNCFIDVCSWTSEMKS GTSRR*KIT*GNSSGSLPRDTQ RSGHRNSSLCCERSKYGGSRVD IRRKVF

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23716	54084	A	23851	1	956	MEVLARVFRQEKEMKGIHIGK EEHKLFLFADNMTLCLEKTKDS VKKLVEQPSSFGSVDWLCLSSC SGSTHTPRPADVSPGSLPGPGQ TFGTREPPQAVSTKEASSSNLH APERTVAGLTFTTEQVRALEGV FRHHQYLGPLERNWLAREMQL SEVQIKTWQNRMRMKHKRQM QDSQLNGPLSGSLHGPPAFHSP SSGLANGLQLLCPWAPLPGS/L WLPLGSFWGLRQMDQEALASS WASCCGQPLAYHPPRPGSGAH KLGPALSTGPRGLCALPETGDA FEETPPTTCLPHKRSVQIASDAY PEDSAVLFTSWRHLSP
23717	54085	A	23852	1	846	MEAFDANYTFQSGPSAAGLLV FAGGPLQALCAWVSAVEAAEQ WILQPSSFGSVDWLCLSSCSGST HTPRPADVSPGSLPGPGQTFTGT REPPQAVSTKEASSSNLHAPER TVAGLTFTTEQVRALEGVFRHH QYLGPLERNWLAREMQLSEVQ IKTWQNRMRMKHKRQMQDSQ LNGPLMGSPGAPWLSTHIFLA LAKGLQ\LLCPWA\PLPGSPGCP LGSFWGTP\QMDQEALASSWA GCCG\QPLAYHPPRPGSGIDLPK GTQLSLRLFQDISSTRGDHRS
23718	54086	A	23853	3	239	
23719	54087	A	23854	10	1154	RRAGFGGVRASGAMGTPPGLQ TDCEALLSRFQETDSVRFEDFT ELWRNMKFGTIFCGMRNLEK NMFTKEALALAWRYFLPPYTF QIRVGALYLLYGLYNTQLCQPK QKIRVALKDWDVLKFQQDLV NAQHFDAAYIFRKLRLDRAHFH TAMPKLLSYRMKKKIHRAEVT EEFKDPSDRVMKLITSDVLEEM LNVHDHYQNMKHVISVDKSKP DKALSLIKDDFFDNINIVLEHQ QWHKDRKNPSLKSKTNDGEEK MEGNSQETERCERAESLAKIKS KA\FSVVIQASKSRRHRQVKLD SSPLDSASGQGQVKATRKKEK KERLKPAGRKMSLRNKGNVQN IHKEDKPLSLMPVITEEENES LSGTEFTASKRRQH

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23720	54088	A	23855	16	447	VNCDKANCSTTCFNGGTCFYF GKCICPPGLEGEQCEISKCPQPC RNGGKCIGKSKSVCEPGCGAH GTCHEPNKCQCQEGWHGRHCN KRYEASLIHALRPAQAQLRQH TPSLKKAERGDPPESNYIWVE LPTSGNVLSYTKFI
23721	54089	B	23856	103	1989	
23722	54090	A	23857	3	1295	SGRGVSRHMADY LISGGTGYV PEDGLTAQQLFTGAAARDRLT YNNFLILPGFIDFIADKVDLTSA LTWKITLKMPLISSPMDAVTEA DMAIAMALMGIGFIIHHCTPE FQANEVRKVKKFERGFIMDPV VLSPSHTVG\DVLEGKMRHGF S\IPITETGTMGSKLDSHKQLLC GAAVGTREDDKYRLDLLTQVG VDVIVLDLSQGNSLYQMAMVY YIKQKYPHLQVIGGNMVTAAQ AKNLIDAGVEGLHVGMCSSIC ITQEVMAYSWPQGTAVYKVAE YARHFDHGEHGKALALGASTV MMGSLLAATTEVPSKYFFSDG VWLKKYRGMGSLDALEKSSGS QKQYFMEGDKLKIAQGVSSSIQ DKGSIQKFVSYLIAGIQHGCQD TGVCNLSVLLSMMYSGERKFE KWTMLAQIKGGVQGLHSYKK
23723	54091	A	23858	770	1008	LAPSPCVRSKGRKESPD SR/RPL WLRPIAPALGPSGRRGLAPDSR LNPHRSLLGTGNYD VNVIMAA LQGLGLAAVWWD RRR

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23724	54092	A	23859	1	1489	MTRWSSYLLGWTTFLLYSYESS GGMHEECVFPPTYKGSVYFTCT HIHSLSPWCATRAVYNGQWKY CQSEDYPRCIFPFIYRGKAYNSC ISQGSFLGSLWCSVTSVFDEKQ QWKFCETNEYGGNSLRKPCIFP SIYRNNVSDCMEDESNKLWC PTTENMDKDGKWSFCADTSNL GMGVGPTPRHRRRASTRHSRPP PADPDGGERPRTADDRQDDA TEDDGTRCRGRQTRTQATNAN ANHKKSNRTKPPPRHKPNKAK RHTKKETPQNT/CGTQDKNPDS GRPCLFRRACITSTGTRGELWT RSREHPAK\QGRSGKQRLRPW DRMLSPDWHRAQRIAQVWKPE QEDGLSIGFGDQPGHSDTSSR QQVRRSKATEMHVGGRVDFD DFVELMTPKLLAETAGMIGVQ EMRDAFKEFDNGDGEITLVEL QQAMQRLGERLTPREISEVVR EADVNGDGTVDVEGDIDGAWG RHGTQGPWPWGLGDVRGEPL
23725	54093	A	23860	283	490	GDIWMGTQPKPYHSPPGSPN\ PCPPHFKNQSMPSKSPKVFNS FPALTQKVHTSKVSSETRQVPS HL
23726	54094	C	23861	82	222	
23727	54095	A	23862	27	454	VDGRIAGEITRRGSRARPRPGPQ CPPGRPGTAMIKAILIFNNHGKP RLSKFYQPYSEDQQQIIFRETFH LVSKRDENVCNFLEGG/LVFVE TLDKCFENVCELDLIFHVDKVVH NILAEMVMGGMVLETNMNEIV TQIDAQNKL
23728	54096	A	23863	1	403	RGSRARPRPGPQCPPGRPGTAM IKAILIFNNHGKPRLSKFYQPY EDTQQQIFRETF/HLGSKKEEK WNFLKGGLLIGSDNKLDIRH YATVYFVF\GGDFSKRELGLN LIQEFGEPLDKCFEKVWELDLIF
23729	54097	A	23864	215	599	

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23730	54098	A	23865	2	683	GRIAGEITRRGSRARPRPGPQCP PGRPGTAMIKAILIFNNHGKPRL SKFYQPYSED TQQIIRETFHLV SKRDENV CNFLEGGLLIGGSDN K\LIYRHYATLYFVFCVDSSE\S ELGILDLIQVFV\ETLDKCFGNV\ CEL\DLIFHV\DKV\HNIL\AEMV MGGMVLETNMNEIVTPIDAQN KLEKSEAGLAGAPA\RA\VSAV KNMNLPAEIPRNINIG\DISIKVP
23731	54099	B	23866	94	726	
23732	54100	B	23867	94	1146	
23733	54101	B	23868	1	360	
23734	54102	B	23869	1	1371	
23735	54103	B	23870	1	639	
23736	54104	B	23871	280	2391	
23737	54105	A	23872	3	244	
23738	54106	B	23873	103	285	
23739	54107	A	23874	70	378	MPLRILLMHGEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEEE\ EEEEEEEEEEEEEEEEEEEEILQIKTK HYTTKEQEKEEQGIKLVQGSNN D/QEQEKKGEYKNTGEKNSMK
23740	54108	A	23875	5	156	RKKGGG/EREEEGEGEEEEEEEE EEEEEEEEEEEEEEEEEEEEVVVL LTPGTGAEDFKKH

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23741	54109	A	23876	1	1808	MEVLSIDNLAGHKVIFYQKESHS WKQKQDLMMSGKRLSAANPLP ALLLPVLWTTGQAPSPGPGGDP ILQLWDDAQQMAGSPRTKKKG CTRNSQAARLSFQSRGGQGS LT EKMIFEQRFGGGKGESRKDAIA IIVVDIVTLQPCRTVEWVPTRPF RSLQGHFQGG LRRQMMVME GVWVLSCAMDLTSPRDCLPFC VSLPVLLLSAPLCS CSTAGGSPV TSPHHFPVEGGLGRVRR CYINE PVVTTLGWESVCWVSFWLLLR IRYSTSGQAACHAESQELNPRG FGCLGHRNVTWVKCLLPALQP EGSVPFLELLEPFIFASASKTFV AANLVTWVACFLLVQAAFQLS EYRQGVGIPVADRTGDAPTLGL SYEADVAEGHGFFLDQESVIQII PEPLPQFYLCLLDAELTGVQGE PALPSMQIFSSPEAATGVHNDR GAEHFVSRQPSAELGLRPMQA SQERKINFPGPSPGFPKRQNK T LSRREKKEEEEKEEEEEEEEE/E GEEEEKEEEEEKEEEEEEEEE GGEEEEEEEEEEEEEEEEEEEE KWLYQYDPEDKAQSKQWLSR GGSGPVKAKADWWRAKEIHS L QPRQVIPGIPSM
23742	54110	A	23877	459	636	IPGGSNGLEAEGPPPPPLPVA AV LA/AGSGGLAVASCAFTICALR WPGVPCSRVPIWTPS
23743	54111	C	23878	183	254	
23744	54112	A	23879	103	335	LGSGDLPWEINPLSSCSLLHEK DPPTTSGPQTDRPKEHLINFKSG ACYTCRKSGH*AKECLQPGIPIK PHLICVGP
23745	54113	A	23880	159	306	LGSGNLP*EINPLSSCSLFREEDP PTTSGPQTNQPKHLTNFKSAA ED
23746	54114	C	23881	80	106	
23747	54115	A	23882	317	427	
23748	54116	A	23883	353	511	
23749	54117	B	23884	1	320	
23750	54118	A	23885	1	624	
23751	54119	A	23886	224	355	
23752	54120	A	23887	872	1003	
23753	54121	A	23888	1	603	
23754	54122	A	23889	2	214	
23755	54123	A	23890	459	601	DVDRHVRGSNFHHNEIRSLAAT PRAPGTLAQ/GLTDSFPDLLGLA AED

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23756	54124	A	23891	2	267	QWDG WGARKGMEWEDDLPLE FGRPTASLLSDRPQPNSSRGSDV PFLAPPSLPC HSSACLAATPRAPG TLAQGSLTDSFPDLLGLAAED
23757	54125	A	23892	72	299	
23758	54126	B	23893	1	1470	
23759	54127	A	23894	134	1276	
23760	54128	A	23895	2	847	PPPPRVLRTGGGASLTAQAPGT PRRPQEGEPVTPGRSLGLRSSCQ ASVSLLLPVIVACASLEPGRGR AFRDEGA WNTRVSA AVISSQA QLLSSILVNSRRLSFSAHHTAFG TVALGEYAFRMFRLSARLFG\E VT\RP TNS/RSLMKVVKLFSE/IW PLAKKKETYDW\YPNHHTY/AL ELMAGRLRFLGTLTEDEAFRDF MGMEAKTDLKEAFVGKGGNP KEREKGKRAAKKGNSCLVPSR RGDFLSSVAERRKLHLLSFPHIG GDVIFLNGSLFGRNTSHLLGEI
23761	54129	A	23898	3	1224	MRRNKPRQRGVREARPAGGAG PGWRGARCSGAGEGGGGERRG SPPAALALAPASGPRRNFPDA RCLIQQIHQGAFLLAGSASLS AVTGVPEGEARFTEDYCPEEK MFGFHKPKMYRSIEGCICISGA KSSSRFTDSKRYEK\DFQ\SCFG LHETRSGD\CNACVLLVKRWK KLPA GSKK\NWNHVVDARAGP S\KTTFE PK\KV KTL SG\NRIK\ S TQISKLQKEFK\RSNSDAHSTTS SASPAQSPCYSNQSDDGSDTEM ASGSNRTPVFSFLDLTYWKRQK ICCGIHKGRFGEVLIDTHLFKP CCSNKAAA EKPEEQGPELPIS TQEWTECPDLSLVVSWRPPLSS LPAGCSLHGLAADWTTDMITV TTSKCREPSCQQEGSFQRRKAF PKRLPKMAEVQVLVL
23762	54130	A	23900	69	355	
23763	54131	A	23901	316	830	VLSQTLHPPMTLQLSRYSRGW GLSSDRPRGAKAKVPSCFGTAP R/GPEAAPRLLAHHLVPAGRGS/ ARAPAGWRLGSPGAGRKGR DFRLPASGLAVSGEWDPIPWGY VGEVGGCSCQWFSPGVQQRKRR RRKVWLGPQDLPGPSALADK GPALAKADGQRVNVASVGLQP

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23764	54132	A	23902	1	1044	MSYKVTQEISKELRWISAVLVT WDLRGETGTRVCIAMGVSRMQ YSIMAKIVGSGNNLELNPAADK LDNLGAQCGLASVKVSARAAP PFAPATLVALLEARAAELPLPPP PGVSLRCVEAPDVRGRGRGGG EGSGVTRLLPPPPPSGASFLQR GRPVTPALFQAGWGRAADRP PADLAGGAGGRSGRRMLPRS PGAALRDRSALEDGIVEGYGPL GEPEEGSRSSFLESKVAFNYCN KVAPLDFGNEAVEQCHTMSDR KAVIKNADMSEDMQQDAVDC A/TQAMEKYNIEKDIAAYIKKEF DKKYNPTWHCIVGRNF\GSY/V PHTEDKHFIYFYLQGVAIL\LFK
23765	54133	A	23903	33	427	
23766	54134	A	23904	72	777	EWKQAGEGGGGQRRGSPPAVL ALAPASCPRRMSYLPNPPGSI LICWLGVSLSHSRAGGGSAYI G\SYYPEEKMFFVHFKPKMYRSI EGYCICRAKSSSRFTDSKRYEK DFQSCFGLHETRSGDICNACVL LVKRWKKLPAGSKKKTGIMCN QSDDGSDTEMASGSNRTPVFSF LDLTYWKRQKICCGINYKGRF GEVLIDTHPFKPCCSNKKA KPEEQGPEPLPISTQEW
23767	54135	A	23905	234	989	PKTSDQAYYCPEEKMFGFHKP KMYRSIEGC\CISGAKSSSRFT DSKRYEK\DFQ\SCFGLHETR\SG D\CNACVLLVKRWKKLPAGSK K\NWNHVVDARAGPSLKTTLK PKKVKT\SGNRK\STQISKLQK \ENFKR\HNS\DAHSTHPQVPSP\ AQSP\FTVNQFRWTGSDTG VGFPGSNRNHPVFSFLDL\TYWKR QKICCGINYKGRFGEVLIDTHLF KPCCSNKKA\AAEKPEEQGPEP LPISTQEWVTEVFM
23768	54136	A	23906	3	1059	

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23769	54137	A	23907	1	1697	MRPCALCWRS AVTAAPERAVL ESRGGAPDTPRRLHSFTQTRSLS PQA HAGPHTRLHPRQGHAMR GGGRVTDTRRHIPNADVPRYK LTCTGGVTTFVALYDYESRTET DLSFKKGERLQIVNNTKGDW WLAHSLSTGQTGYIPSNYVAPS DSIQAEWYFGKITRRESERLLL NAENPRGTFLVRESETTKGAYC LSVSDFDNAKGLNVKHYKIRK LDSGGFYITSRTQFNSLQQLVA YYSMSHCPPFSAAGWYGGGCP EEPQKHADGLCHRLTTVCPTSK PQTQGLAKDAWEIPRESLRLEV KLGQGC FGEVWMGTWNGTTR VAIKTLKPGTMSPEAFLQEAQV MKKLRHEKLVQLYAVVSEEP YIVTEYMSKGSLLDFLKGETGK YLRLPQLVDMAAQIASGMAYV ERMNYVHRDLRAANILVGENL VCKVADFLARLIEDNEYTAR QGAKFPIKWTAP EAALYGRFTI KSDVWSFGILLTELTTKGRVPY PGMVNREVLDQVERGYRMPCP PECPESLHDL MCQCWRKEPEER PTFEYLQAFLEDYFTSTEPQYQP
23770	54138	A	23908	1	736	MDPGAALQRRAGGGGGLGAG SPALSGGQRRRKQPPRPADFK LQVIIIISRGV GKTSLMERFTDD TFCEACKSTVGVD FKIKTVELR GKKIRLQIWDTAGQERFSSITSA YYRSAKG MILVYDITK KETFDD LPKWMKMIDKYA SEDADLLL VGNKLDCE TDREITRQQGEKFA QQITGMRFC EASAKDNFNVDEI FLKLVD DILKKMPLDILRNELS NSILSLQPEPEIPPELPPRPHVR
23771	54139	B	23909	84	441	
23772	54140	A	23910	6	254	
23773	54141	A	23911	1	230	
23774	54142	A	23912	3	187	
23775	54143	A	23913	3	143	
23776	54144	A	23914	3	481	
23777	54145	A	23915	1	711	
23778	54146	A	23916	55	381	

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23779	54147	A	23917	240	875	GLSAESTPTSIMSMTLGYWDIR GLAHAIRLLLEYTDSSYEKKY TMGDAPDYDRSQWLNEKF GL\DFPNLPYLIDGAHKMHPEA TPFLCY\ARKHNLLGETGRRE KISSWDIL\ENQAMDVS VCYSPDFEKLKPEYLEELPTMM QHFSQFLGKRPFVGDKITFVD FLAYDVLDLHRIFEPNCLDAFP NLKDFISRFEVSCGIM
23780	54148	A	23918	64	774	CLSAESAPTSTMPMTLGYWDIR GLAHAIRLLLEYTD\SSYEKKY TMGDAPDYDRSQWLNEKF GL\DFPNLPYLIDGAHKITQ ILRY\ARK\HNLCGGDRRREKIS CWDILENQVM\DNHME YDPDFEKLKPKYLEELPEKL YSEFLGKRPCFLG\DKITFVDFL VY\DVLETK\QVFEPK\CLDAF\Q NLKDFISRFEGLAEKISAYMKSS\ RFL\QELVFSKMAVWGNK
23781	54149	A	23919	163	317	LSPNNYYRKLPPQVKLE*RYHR LALFSFPTKKLTPEKVSLCCRF EMGYIF
23782	54150	A	23920	62	255	VRMTAQKSLGPLTSTHSLWGSA \RARHREPVGSGCDPCEQLL LLVSQLRAPGVDSAAAGRPV
23783	54151	A	23921	173	467	KSRFCFFGVVLKLPKKLHIR*WI GATL*NQP*TIFQTDGDCSHQSL GPLPACDLWDQLHLRSKQGS VCGCDPCEQLLLVSQLRAPGV DSAAAGRPV
23784	54152	A	23922	35	548	PRSCPSLSPGLSCLLQ/RLVNYQI SIKCSNQFKLEVCLLNAENKVV DNQAGTQGG\LPVVGQARWGS GCRGAHTWPLAVIGAADCTG QRGWEGV*AFPGLTEPVSSLFC GQDGD/CSPHSM*VLSHVVLWL LNGLC\SLVLGSVCGCDPCEQL LLLVSQLRAPGVDSAAAGHPV
23785	54153	A	23923	1	599	MSPAGLVNYQISVKCSNQFKLE VCLLNAENKVVDNQAGTQGG KGRPDGAQAV/VGAHTWRFGC RRCG*LHRSHWGL*LLHTPCGR PHCARHREPVAHSLCSRAISGS EPHFWQCSVQ*PQLCVPGRVAT PLGELDSGDGDCSHQSLGPLPA CDLWDQLHLRSRQGSVCGCD PCEQLLLVSQLRAPGVDSAAA GRP
23786	54154	A	23924	290	528	

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23787	54155	A	23925	274	571	KSRFCFFGVVLKLPKKLHIR*WIGATL*NQP*TIFQTDGDCSHQSLGPLACDLWDQLHLHSRQGGSVCGCDPCEQLLLL\VSQQLAPAI DSAAAGRPV
23788	54156	B	23926	204	410	
23789	54157	A	23927	29	330	YLGVELVKSAYPFFQIHLSPSCMWLCGLFLLFYIDFLTLMCGDKPLICKKHQLSASTCA/CTIC*GALTLLMEIEQGPCDLSCASREVSTARSLAELFSGP
23790	54158	A	23928	259	699	ETSHQVMDSRNPVKPALDYFLNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGGQLKVLGANLWWPYLMHEHPAYLYSWEDGDCSHQSLGPLACDLWDQLHLRSRQGGSVCGCDPCEQLLLVSQQLRAPG\VDSAAAGHPV
23791	54159	A	23929	245	695	
23792	54160	A	23930	302	745	ETSHQVMDSRNPVKPALDYFSNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGGQLKVLGANLWWPYLMHEHPAYLYSWEDGDCFTPKALDPLACDLWDQL\HLRSRQGGSVCGCDPCEQLLLLVSQQLRAPGVDSAAAGRPV
23793	54161	A	23931	2	293	VFCHTDLRKNLTVDEGTMKVEVLPALTDNYMYLVIDDETKEAAIVDPVQPQKVVDAAARKHG\VKLTTVLTTHHHWDHAGGNEKLVKLESADLGIRLF
23794	54162	A	23932	1	441	
23795	54163	A	23933	1	630	
23796	54164	A	23934	3	265	
23797	54165	A	23935	3	1062	SAVQPGPVMVVGRGCSRRSLAALGAACARRGLGPALLGVFCHTDLRKNLTVDEGTMKVEVLPALTDNYMYLVIDDETKEAAIVDPVQPQKVVDAAARKHG\VKLTTVLTTHHHWDHAGGNEKLVKLESLKVYGGDDRIGALTHKITHLSTLQVG\SLNVKCLATP\CHTSGHI CYFVSKLGG\SEPFVVFTGDTLFV\AGCGEVLMMKGLRDEMCKALLEV\LGRLPPDTVGSASLRAGRVYCG\HEYTIKQTSKFAR\HVETGNA\AIREK\LPWA\KEKYSIGEP TVPSTLAE\EFTYNP\FIK\REERRCKQH\AGETDPVTTMRPVRREKDQ\FK\MPRDLRPLHLQQDLGIKALLDRLF

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23798	54166	A	23936	107	750	SHLWSPVSEPLQACSFC/VIRDK YRYFACLMRARSEEHTNEKDM MKAIRLLKEAEEEFWYHQHPQ PCIFPDSPRGTSYVTHECYKVPE WCLDDWHPSEKAMYPDYFAK RKQWKLLRRESWKREVKQLQ EETPPAGKEECKLHEGMNYVV LTCIPGAIKQYLACSRYSKTPGP RDSCWEVQSDNQCWWWLD SG AHGLVTSFKGVMMTVEATTM AAVF
23799	54167	A	23937	3	718	PASTISCSVTRSRAVSRLSARP GKVSAMASLASGPYLTHQK VLRLYKRALRHLESWCVRDK YRYFACLMRARFEEHKNEQDM AKATQLLKEAEEEFWYRQHPQ PYIFPDSPPWGHPPYERY\DCYK VPAEWCLDDWHPSEK\AMYPD YFAKREQWKLLRRESWERE\KQL QEET\PPGGSF*LEALPPGP KRKVILPPLWW\YIVTRP\RRP MLERERPHLSCLQVKYVTEHG
23800	54168	A	23938	269	488	TDGVIFIGLSWSPRRCGLGIRQD AERIFFALDQASCGFTIHPIDA AETPRGLTMHLCRRCQRGQSQ AEKLP
23801	54169	A	23939	1	1560	MVHLGAPVMALNLQGHLC STASSLLPRRRESNSDDTARED ARQKRPANTDMRTQELQTRET GGGTARETEVATPLSGPSAGDS PPAASEMSCGQLVLALLLFFL LVWNTGTKSGSGRVARLAQLA HDCDGLALGLCYAVLDQRSV VQATPQAPKPGPVQPLTVQGL QPVHVAQESSGNEITARRQSAR SRPRGDRTAPSRRTVTRRPKHAP ERAPIQQGNIVTVRAPTARKKW RPAVGTPTGAHPVCTAKGTGG RPTPTQAHTRYTERDPIRNSAEL TGSRPCTGRERSGVEACKAAV HNLL\AQTGSSGLIINYPLDD\Q DAIAVEAACTNVPALFLDVSDQ TPINSIIFSHEDDVWRTPLVAPT NLNTRSSQPARHHRAGAVRRH HMTVARSAHAHRLRRHAKPQ GRERIKPSGAREGSEPLGGESGI RTPRGRERDPNPSGAKAGSEPG RIPETLPRCKGETEAKCWARGN FHTAQGSWPRGGRSRWEPLA PALSQQAHHGSELPLAAARSHR
23802	54170	B	23940	98	229	

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23803	54171	A	23941	1	256	
23804	54172	A	23942	289	433	VLWSCAAEDFDWL VYRPIGSA LSCRLIGPWAIGMWETGFP*VL WSCAAEDFDWL VYRPIGSALSC RLIGPWAIGMWETGFLLSSVS LS
23805	54173	A	23943	450	1260	LCACVVGGEKRSRGPRI GCAGA GKDPFWRAVGVAQKAAAVVA CGAASPYRNRADVSVDHSQS RGPGLSLSGGTVCMDMGKKT RTADSSSEDEEEYVVEKVLDR RVVKGQVEYLLKWKGFSEHN TWEPEKNL\DCPELISEFMKKY KKMKEGGN\NKVREKSESSKR KSNFSDSAEDIKCKKKREQSND IARGFERGLEPEKIIGATDSCGD LMFLMKWKDTDEADLVLAKE ANVKCPQIVIAFYERLTWHAF\ PEDAENKEKETAKS
23806	54174	A	23944	3	267	AMVGGGGVGGG LLENANPLIY QRSGERPVTAGEEDEQVPDSID AREIFDLIRS*A WPLTPQPAYW YGPSSCQGCYRCFLES LTMRN
23807	54175	A	23945	1	942	
23808	54176	A	23946	3	470	AMVGGGGVGGG LLENANPLIY QRSGERPVTAGEEDEQVPDSID AREIFDIRRCWARAGSGGLRW GEQ*YRAAGGAASQGV PGRG F*VGKGAESLFLHFPQLIRFLN DP\EHSLTLEELNVVEQVRVQV SDPESTVAVAFPTISHWSMG T
23809	54177	A	23947	2	604	ARSHRISGGGSAMVGGGGVGG G LLENANPLIYQRFGE R PVTAG EEDEQVPDSIDAREVF\DLIRSH QMTPEHP\LTLEELNV\VEQVR\ VQVSDP\ESTVAVGF PKPTHSGT CRHGPPLIGL S\IKVK\LLRSLPS AFSRWDVAHLLPGDPLPQEHA VEQATLQIKEAGWATALGRTH HLLVVN\QCLSSAPGTWAFV
23810	54178	A	23948	1	1002	

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23811	54179	A	23949	89	2587	STSRDRRLSKRSRTTMAAQPRG GDYRGSFLLSILLGTPWEAWAG RILYSVSEETDKGSFVGDIKDL GLEPRELAERGVRHSRGRTQLF ALNQRSGSLVTAGRIDREEICA QSARCLVNFNLMEDKMNLYPI DVEIIDINDNVPRFLTTEEINVKI MENTAPGVRFPPLSEAGDPDVG TNSLQSYQLSPNRHFS LAVQSG DDETKYPELVLERVLDREEERV HHLVLTASDGGDPPRSSTAHIQ VTVDVNDHTPVFSLPQYQVT VPENVPVGTLLTVHAIDLDEG VNGEVTSYFRKITPKLPKMFHL NSLTGEISTLEGLDYEETAFYE MEVQAQDGPGLTKAKVLITV LDVNDNAPEVTMTSLSSSIPED TPLGTVIALFYLDQDRDSGKNGE VTCTIPENLPFKLEKSIDNYRRL K\TTKNLDRETLNITLTKATD GGTPPLSRETHIFMQVADTNDN PPTFPSSYSVYIAENNPRGASI FLVTAQDHDSEDNAQITYSLAE DTIQGAPVSSYVSINSDTGVLY ALQSFDYEQRLRELQLRVTAHDS GDPPLSSNMSLSLFVLDQNDNP PEILYPALPTDGSTGMELAPRSA EPGYLVTKVVAVDKDSGQNA WLSYLLLKASEPGLFAVGLYTG EVRTARALLDRDALKQSLVVA VQDHGQPPLSATVTLTVAVAD SIPEVLADLGSLEPSDGPYNYDL
23812	54180	B	23950	165	335	
23813	54181	A	23951	217	859	GSAMAQQRALPQSKETLLQSY NKRLKDDIKSIMDNFTEIKTAK IEDETQVSRATQGEQDNYEMH VRAANIVRAGESLMKLVSDLK QFLIL\NDFPSVNEAIDQRNQQL RTLQEECDRKLITLRDEISIDLY ELEEEYYSSSPGPSLVSQQLSEQ QLLSSAWTAWPKVTLLSLAPGP QYSVNGPAAIIAHPGTCASAGIS SSLLPEPVLLVPVF
23814	54182	A	23952	1	1263	

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23815	54183	A	23953	70	2530	PGVSRLVSKLRRARGMGSGAG ELGRAERLPELFLFLLTLFCPAL CEQIRYRIPEEMPKGSVVGNLA TDLGFSVQELPTRKLRSSEKP YFTVSAESAELLVSSRLYREEIC GKKPACALEFEAVAENPLNFY HVNVEIEDINDHTPKFTQNSFEL QISESAQPGTRFILGSAHDADIG SNTLQNYQLSPSDHFSLINKEKS DGSKYPEMVLKTPLDREKQKS YHLTLTALDFGAPPLSSTAQIH VLVTDANDNAPVFSQDVYRVS LSENVYPGTTVLQVTATDQDE GVNAEITFSFSEASQITQFDLNS NTGEITVLNTLDFEEVKEYSIVL EARDGGGMIAQCTVEVEVIDE NDNAPEVIFQSLPNLIMEDAEL GTHIALLKVRDKDSRHNGEVT CKLEGDVPFKILTSSRNTYKLV TDAVLDRQNPEYNITVTATDR GKPPLSSSSITLHIGDVNDNAP VFSQSSYIVHVAENNPPGASISQ VRASDPDLGPNQVSYCIMAS DLEQRELSSYVSISAESGVVFA QRAFDHEQLRAFELTLQARDQ GSPALSANVSLRVLVDDRNDN APRVLYPALGPDGSALFDMVP HAAEPGYLVTKVVAVDADSGH NAWLSYHVLQASEPGLFSLGLR TGEVRTARALGDRDAVRQRL VAVRDGGQPPLSATATLHLVF ADSLQEVLPDITDRPDPSDLQA
23816	54184	C	23954	75	149	
23817	54185	A	23955	442	618	CQRLRSWVSQPFSSFFPSFPTF* NILCLFVYLEVEFPSCCPGWSN NWAKSSGKALEAN
23818	54186	A	23956	1	245	

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23819	54187	A	23957	30	1079	APCASFLTPLAAASVGK VWLG LRGAAPMASVLSYESLVHAVA GAVGSVTAMTVVFPLDTASIF DFSVDFAKRKSKTTHMVVLEIHK EEGLLAPYRGWFPVISSLCCSNF VYFYTFNSLKALWVKGQHSTT GKDLVVG FVAGVVNVLLTTP WVVNTRLKLQGAQFRNEDIVP TNYKGIIAFHQIIRDEGISALW NGTFPSLLL VFNPAIQFMFYEGL KRQLLTFAFQLSSLDVFIIGAVA KAIATTVTYPLQTVPLFPQFGR HRLNPENRTLGLSLRNILYLLQI FRTPSEREPFYTSVTL SVLSSVA YPM MPLSNITSA YRIGVLEKGG GSGKSDNSDDDDNDNDGGV
23820	54188	A	23958	1375	2451	VPRVPFAINVLTHSRQRYRRNL RFYADDPTIRV/GGPTYHWVRE AEEERVVDNRMHDFCELRTA AGHPVEGGRPLVIKITHPAET ALQRFKFLMYQVVASDLDGTL LSPDHTLSPYAKETLKLTTARGI NFVFATGRHHVDVGQIRDNLEI KSYMITSNGARVHDL DGNLIFA HNLDRDIASDLFGVVNDNPDIT NVYRDDEWFMNRHRPEEMRFF KEAVFQYALYEPGLLEPEGETK ALLTPGKLKNFLVEKMRTLGT AACPPYHIAFVIGGTSAETNLKT VKLASAHYYDELPTEGNEHGQ GSAMSSWNRNCWKPRNSVLA RSLAVNTSRTTFALSVCHVTAH PARSAWASPVR
23821	54189	B	23959	1	1386	
23822	54190	A	23960	1375	1609	VPRVPFAINVLTHSRQRYRRNL RFYADDPTIRV/GGPTYHWVRE S\EEERVVDNRMHDFCELRTA AGHPVEGGRPLVIK
23823	54191	A	23961	433	741	
23824	54192	A	23962	12	224	
23825	54193	A	23963	3	2053	

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23826	54194	A	23964	1	2408	MGGADIAGPRREHNAKHPTVG LGSA AQTTC L P G P K Q K G D P T R H Q P V D K R N D V G P R Q H F W C W R V E I H K E K R M K T G P L N E S E L E W L D D I L T K Y N T D H A I L D V A E L D G L L T A V L S S P Q E I E P E Q W L V A V W G G A D Y V P R W A S E K E M T R F M N L A F Q H M A D T A E R L N E F P E Q F E P L F G L R E V D G S E L T I V V P P G G R T A T N A L S C G S L F G E E T S P R G P S A D S T S Q S I G G G S P H D C A K G I A L V A A N G G D I R D Y E G V D R S A K P Q L P M I A I N T T A G T A S E M T R F C I I T D E A R H I K M A I V D K H V T P L L S V N D S S L M I G M P K S L T A A T G M D A L T H A I E A Y V S I A A T P I T D A C A L K A V T M I A G I S T F F A S S R M A L M Q A S A P S A S F L P V T F T P I A A A Q S R R R A A A T G Y R D R W L C H G D V L L Q I C A N T Q D T V I H A L R D I K H N S C P D D C S V Q H D A V I D D G C D F I D Y L G G S E T V V A L N T P R A D D Y H P V M V L C A K T D K A H R N V I H T S K L C F I T L T P E I S Q R S H G K S S K R V F S C F P V F L L L K H R R I V A Q K Y A E L A Y D L F H L G F D V L I I D H R G Q G R S G R L L A D P H L G H V N R F N D Y V D D L A A F W Q Q E V Q P G P W R K R Y I L A H S M G G A I S T L F L Q R H P G V C D A I A L T A P M F G I V I R M P S F M A R Q I L N W A E A H P R F R D G Y A I G T G R W R A L P F A I N V L T H S R Q R Y R R N L R F Y A D D P T I R V G G
23827	54195	B	23965	1	3357	
23828	54196	A	23966	14682	14931	E I G P G P R P L P S L P * A T S T S V L A A S G R P E R T R \ H A G I K I V L E D I F T L W R Q V E T K V R A K I R K M K V T T K V N R H D K I N G K R K T A K E Q S P L L Q E S L F A T G D V S H N L L R A L D V G L L A N L S A L A E L D I S N N K I S T L E E G I F A N L F N L S E I N L S G N P F E C D C G L A W L P R W A E E Q Q V R V / A A A R G S H V C W A W L P G W P A S A W H P L A G Q W L W * G V C R L P P * Q Q L R H R G S S V L F S C P R R P A / C S Q R P A A P S A S P P A R A S Q P S P S R A

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23829	54197	A	23967	1	714	MVKLSIVLTTPRFLSHDQGQLTK ELQQHVKSVTCPCEYLRKVINT LADHRHRGTDFGGSPWLLIITV FLRSYKFAISLCTSYLCVSFLKTI FPSQNGHDGSTDVQQRARRSN RRRQEGIKIVLEDIFTLWRQVET KVRAKICKMKVTTKVNHRDKI NGKRKTAKEHLRKL SMKEREH GEKERQVSEAEENGKLD MKEI HTY/MITPSARKPLCNVRMAA AEHRHSSGLPYWPYLT AETL
23830	54198	A	23968	111	216	ALLFPISTWSTPLGTQQAPQCV* PTPMPMRPVPS
23831	54199	A	23969	1	4710	
23832	54200	A	23970	3544	3723	RSHRSPPRCPPSRAPAPRRSAAA PPRR*PPRAPAAPRP GPP/CMAR PPPARPTAGSRVPPL
23833	54201	A	23971	3	1119	EFGTSHRHRGTDFGGSPWLLIIT VFLRSYKFAISLCTTYLWVINTL ADHRHRGTDFGGSPWLLIITVF LRSYKFAISLCTTYLCV SFLKTI FPSQNGHDGSTDVQQRARRSN CRRQEGIKIVL AEDIFTLWRQVE TKVRAKIRKMKVTTK\ ATRLTK IKERRKTAQDHWRLKLSMKERE HREEERQVSEAEENGKLD MKEI HTYMEMFQRAQALR\RAED\Y YRCKITPSARKPLCNVRMAAA EHRHSSGLPYWPYLT AETLKNR MGHQPPPPTQQHSIIDNSLSLKT PPECLLTPLPPSALPSADDNLKT PAECLLYPLPSADDNLKT PPEC LLTPLPSAPPSADDNLKT PPKC VCSLPFHPQRMII SRN
23834	54202	A	23972	1	1149	

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23835	54203	A	23973	93	1165	HRRSAAEAPAAAVMPFPFGKS HKSPADIVKNLKESMAVLEKQ DISDKKAEKATEEVSKNLVAM KEILYGTNEKDPQTEAGAQLAQ ELYNSGLLITLVADLQLIDFEGK KDVAQIFNNILRRQIGTRTPTV EYICTQ\QN\LFMLLKGYESPÆI ALN\CGIMLRECIRHEPLGKIIL WSEQFYDFFRYVEMSTFDIASD A\FATFKGLLTRHKLLSAEFLEQ HYDRFFSEYEKLLHSENYVTKR QSLKLLGELLDDRHNFTIMTKY ISKPVNLK\LMMNLLRDKSRNI QFEAFHVFKA\FVANPNKTQPIL DILLKNQAKLIEFLSKFQND RTE DEQFNDEKTYLVKQIRDLKRPA QQEA
23836	54204	A	23974	3	158	
23837	54205	A	23975	3	1071	GVRASGRAVPRAVFAGMKRPC EETTSESDMDETIDVGSENNYS GQSTSSVIRLNSPTTTSQIMAR KKRRGIIEKR\RRDRINNSLSELR RLVPTAFEKQGS AKLEKAEILQ MTVDHLKMLQATGGKGYFD\A HALAMDFMSIGFRECLTEAAR YLSSVEGLDSSDPLRVRLVSHL STCATQREAAAMTSSMAHHHH PLHPHHWAAAFHHLPAALLQP NGLHASESTPCRLSTTSEVPPAH GSALLTATFAHADSALRMPST GSVAPCVPLLSTSLLSL SATVH AAAATATAAAHSFPLSFAGAFP MLPPNAAA AVAAATAISPPLSV SATSSPQQTSSGTNNKPYRPWG TEVGAF

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23838	54206	A	23976	1	1416	MPGNLTRKESSSPLTDRHCHTS SQFSHRFNAISPPPAELGCDHV ASAAADPLGVPGVATQWAGGL SAALAAPRRPHSCRRQLQVLGAL GILKSAGRVNFRFCGPLSIRGKP KTPLWEQEKPKLQTGSAGSQQ KRVMLKPSRGADRVLGRGSQR PAETDRETTDLRQKRKMEKGK ERTLRAARGETRRSNGNLARQ TVPEGCRSQTQALQVVRNART PPCIPNLD RPPEACSSGSTGGM MPLRVAPSPVASGESSHLSSGR GDRGLVRCKVEELRFQPVAFPE FIPPPTSPRADSESGDWCTVLA NPSKTGSGGWEQRKTECPQGR TQNPQQRGS/RNLVLLTAGQES TPRRSQLTRSPA AERRTEEQGE DRKNRALGCNLFPRVPRHARD SQRALRASTQAPKKSTFAFPGI HSGAVCSKRRICGVQGEFPLPF ASQCSSLKILPSPGPTKELTSY LLHSGCGFLDKLRV
23839	54207	A	23977	3	139	
23840	54208	A	23978	141	734	GSQLRRPAFGVRVALEESKGLI RKDSCRGRACAGANACARRRR PPTMSGAAWRGTPLALVRSSRT RGVWAWQWSATRSPSDSCFPG VARDKEDGEPKTKHLREEEEE GEKHRELRLRNYPEDDLKK RRVPQAKPVAVEEKVKEQLEA A\SPPEVIEVDLANLAPRKPDW DLKRDVAKKLEKLLKRTQRAI GRLDP
23841	54209	A	23979	3	585	GTVGGVCGPRRSSASPQEQDQ DRRKDWGHVELLEVLQARALF TAVPLSEEDRATVLKAVHKVK PTFSLPLQLPPPNTSKLLRDVY AKDGRVSYPKLHLPLKTLQCLF EKQLHVELASRMCVVSVEKPT LPSKEVTHARKTTLKTLRDQWE KALCRELRETKNRRLERQVYEG RFSLYPFLCLLDECEVVRMLLQ

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23842	54210	A	23980	1	3778	MRRRGPVGWPGAACVMSALC WGRGAAGLKRALRPCGRPLP GKEGTAGGVCGPRRSSASPQE QDQDRRKDWGHVELLEVLQA RVRQLQAESVSEVVNRVDVA RLPECGSGDGS LQPPRKVQMG AKDATPVPCGRWAKILEKDKR TQQMRMQRLKAKLQMPFQSG EFKALTRRLQVEPRLLSKQ\MG GCLEDCTRQAPESPWEEQLARL LQEAPGKLSLDVEQAPSGQHSQ AQLSGQQQRLLAFFKCCLLTDQ
23843	54211	A	23981	101	805	HMYTSMKPSSQPRSWISTPHPK ACSSLSFPLSLDNWMNINLREVI CTSRDGDKFWRMPECYIRGSTI KYLRIPEIIMVKEEVVAKPR GRGGLQQKQKQGRGMGGAG RVGSPLSSG\VPGAGRQPHVAS LLLGVALAALPRRLPNLPGPPS CPLAMNRGPGRGAPRHGTQPSS QCASWRSSGHIKSPQAPVSPM RGNGGAHLRPLATTLGTLRGS IQSQGRPPPEMMNWH
23844	54212	A	23982	133	1069	RIAWGQDRSCLQGGPFATYVP GLILCSLQGWYGVQAGQDLQG LPRSQGWARRPGGKLITCSPSP QDGDKFWRMPECYIRGSTIKYL RIPDEIIMVKEE\VVAKGR\GR EGPCQQAESQK/GVRGMGGA\ GRCVFGGRGRGMGSPITG\ARCH PDKKPGRQAGQTVSAHPDRLL RPLLARVGDFRSTVSERNLLQK GRGRPPRGEPFRVLVTPSLFKV KAPFFLPKNRQILVRKCLCCF FGFCETGPSQKLGNPLERVLC LKAIFSSPFASGFSRASHFPRRG LFLHFLGSLSEASNQTGRFLILK
23845	54213	A	23983	1	326	PVSLECYTPPEDNLALLQLYF RTLVTGA/LRPRWCPVLYAVTL WPHVNSFIFSQRPRIVIDIGKM GTLSCIQPFNRCLARRRTLCPNG RQETKEQKACLPGSRLFELF
23846	54214	A	23984	2	341	

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23847	54215	A	23985	114	712	DLISALMIWFHVIVIHPTPYVCIYI PTLPLSTSFPLSQLPVSLECYTV PPEDNLALLQLYFRTLVTGALR PRWCPVLYAVAVAHVNSFIFSQ DPQSSVSYISIFRGRKGASN*AA SGPAGEEVSVKQGQWWVPAL GSVPPLPVLLADEVKAARRSM LQKTWLLADEGLRQHLLHYKL PNSTLPEGFELYSQMPPLRQHY
23848	54216	A	23986	357	2771	FESSCPPVGSPVGAGPTPSLYKV PCATAMKLLRVLASAGRNIAA RLLSSFDLRSRLCRIIAEAPQEL ALPPEEAEMLSTEALRLWAVA ASYGQGGYLYRELYPVLMRAL QVVPRELSTHPPQPLSMQRIASL LTLLTQLTLAAGSTPAETISDSA EASLSATPSLVWTQVSGLQPL VEPCLRQTLKLLSRPEMWRAV GPVPAACLLFLGAYYQAWSQQ PSSCPEDWLQDMERLSEELLPL LLSQPTLGSLWDSL RHCSLLCN PLSCVPALEAPPSLVSLGCSGGC PRLSLAGSASPPFLTALLSLLN TLAQIHKGLCGQLAAILAAPGL QNYFLQCVAPGAAPHLTPFSA WALRHEYHLQYLALALAQKA AALQPLPATHAALYHGMALAL LSRLLPGSEYLTHELLSCVFRL EFLPERTSGGPEAADFSDQLSL GSSRVPRCGQGTLLAQACQDL PSIRNCYLTHCSPARASLLASQA LHRGELQRVPTLLLPMPTEPLL PTDWPFLPLIRLYHRASNTPSG\ LSPTDTMG\TAM\RVLQWVLVL ESWRPQALWAVPPAARLARLM CVFLVDSELFRESPVQHLVAAAL LAQLCQPQVLPNLDCLGRG LTSFPDLYANFLDHYEAVSFGD HLFGAMVLLPLQRRFSVTLRLA LFGEHVGALRALSLPLTQLPVS LECYTVPPEDNLALLQLYFRTL
23849	54217	A	23987	291	454	KAETGSLPYTLCKNQFKMD*RL TC*T*NHKNPRRKPR*YHSGHR HGQRLHDENT
23850	54218	A	23988	1	613	

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23851	54219	A	23989	807	1345	RCEERLLPLNLAVIALPSGLER WSFFAVYNGHPGSQVAKYCCE HLLDHIADNQ/DFTGSAGAPSLE NVKNGIRTG/CPEPEVHDTERSE EDDHFIILACDSIWDVMGNEEL CDFVRSRLEVTDDEKVKYNEIV DTCLHKGSQDNMCVIFLWFPN APKVSPEAAKKEAELGKYRLN SILSDQ
23852	54220	A	23990	344	636	SSLSLLDIWVGSKSLLL*IVPQ*T YVCMCLYSSMIYSPLGIYPVMG WLGQMVFLVLDPSGIATLTST MVELVYSPTNSVKVFLFLRLSS TCCFLTF
23853	54221	A	23991	1	2793	
23854	54222	A	23992	18	409	SSVVEFVDPRVAPALLPQLPLES SSHGSVLPTMAVCLDKGHKMT KNMSKPRHSCRRGRLTKH\KFM WDMIREVCGFAPYERHAMVLL KVSCKRALKFIKKRVGTHIRT KRRQEELSNVPAIMRKADAKK D
23855	54223	A	23993	1	609	MHPRGPPPPAQEESHTDESPGID HQSLARRAGRVGRTGGFSQLL AQTNLSMLSSPASCTSPSPDGE NPCKKVHWASGRRRTSSTDSES KSHPDSSKIPSRPSRLTVKYD RGQLQRWLEMEQWVDAQVQE LFQDQATPSEPEIDLEALMDLST EEQKTQLEAILGNCP\RPTEAFIS ELLSQLKETPETQPASEISLRDH
23856	54224	A	23994	1	204	
23857	54225	A	23995	1	418	MWNRLCNWVTSIGWKSLEGSE EDRKSSQWGTLPSGAVRRGPPS SRSKNGRSNSSLHPVPGKATGT QLEPMRAVMGDESCKATGTEL LHALGAHPLHRLKQHSHMMF QKVQVEPLRK\EPHHWQRL*PF SSE*NHGPSR
23858	54226	A	23996	104	253	

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23859	54227	A	23997	666	1436	WRPCFWLQAKKEAPAP\PKAK AKVKAL\KAKKAVLKDVHSHK KKKD\ARKSPTFRG\PKTLCTR\KP PKCLQKTAPRKNKLDHCAITKF PLTTKSTTKKIEDNNTLVFIVDV KANKHQFKQAVKKLYDTDVA KNITKRWDVTSIITSCYIHLRLA SRLALEDLLAGLMNCLKGTFW NEESGERVETRPESRFKQQSKLI YTIKNPGRKKYGAEKRAFWC HTDLLLHDHDEQVNHFSSPSST FTKCKRRKPFLREFVWIK
23860	54228	A	23998	2	301	
23861	54229	A	23999	1	242	MGMVRKQALERTEWALVCRQ AWSSRMGYSTTVSPTQCQYTC SRGLLDSQLQLYKCTQALPEIH SLGHVCPSLITVKYSHYVLA TLFIWDNNESLRTGLLSVSTCK SGTRDFMRISGMVSLTSEVDNV EVFHYFPLHIQGKKFWAVGAI MTIFVISIYYEPGAHWHHMWK LLKVYSLESQKREEDISKRLPNF LKSSRRPWEDLILMLRKSPMS KEYRASPLSLSAALRSKDRQSR HRCVTSTFHIREVRCKSQGLP LCMHETAHICP*TEGQQKGS GLLYIP*TSPEIFSASESDPPMAC
23862	54230	A	24000	2	948	CGTPTVVPGTGTSRRVRTATVE PTWKCRAAQPPPPP/PPLVWK LPPDSTTKPELQLEELDADSS WMLPHGSCPTGKLAVDARSSL FTEPAFPYWKKMKHTFQNILS WSKFTNLTVSVTQLWLLVMA QTSYPHSLVGRKQVILHSSCLY SLDNKTSAGDDHDDDDHDDN DSSPAEKGPPPIITKSLDKADEQS HLRLAVLELGFYKPVNLLVA MTGCLLQMMKKEQCCTHGG EGSTLEGSRPDVPQDLFSPTLGF YGSTSLSADLGENVILKLYLPSF PLQESEPSAEHGENLWALYVGF EERRSEASLAKAP
23863	54231	A	24001	265	513	
23864	54232	A	24002	513	796	TGTAWTPPPPLTTGAPCTPPPR CTARGRT/PGDSHLGGGPAATA GGPRTSPMSSGGPSAPGMRPPA SSPKRNTTSLNSGLEPTFSFRIT FGFM

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23865	54233	A	24003	1268	2097	TPELTGAISLSTLGDPSPFRQPSS AQMGHLLSTSLSTPPTTSNSETT QPAFATVTPSSSSVLPGLPQTSF SGMGPSAELMASTSPKQQLPQF SAAFQHLSSHSGIPKDLQPSHS SIAPPTGFTVTGVKLQTFVSVT VLKATCLELFVPPGGFVVSLAS GVKLQTVTPLHFSGNHPSAFYY YRLSFEMDKGKKRQFGVEKEK CGSLGGFVMLGNEEMIRRAVT LIAWTKIPFLGIREAKNPGSENI RLATILEAPPPSWELWEQGPPG APYYQP
23866	54234	A	24004	3	1163	GEVTSWNRGRGLRIWRYFLFGP VQKTMRLLLSRLTYCWLEQDG RVSWRLGLEIGSLPTVPVRLCP ANRSPPMVCGTTGRSSNSSTE KRMCTCSSRAALHFLKGPEGG TLMEEIRALIKEPPESSLTPSTRG GHSEKAPSKNHQAATVNTTTL RISHISHTHLLIHCTGKEQHEPY EDAATRSRPEADLSRHERLTCR HLDLGLPDMQNRQCVPGSQGL RPVGGLEGPRHWCLVRSSRLG VLPRRPQGCEDDAGGLQRQDC GQWREL VQLPTPP/VCPGGASP HPKPLPDLDPDPPGSSRCFCLLP TCPAAPPAGSPSPCSQSPGCLPP VPTPSVLECCTQVLLEDSPKQS HRNSAPHLQPGIWSHIPGSHPW CLVLAAEGSTSSV

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23867	54235	A	24005	1	2502	MEARVERAVQKRQVLFLCVFL GMSWAGAEPLRYFVAEETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDL NEKLDREELCGPREPCVLPFQL LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTTPGAFFL ESAQDSDVGTSLSNYTISPNA YFHINVHDSGEGNIYPELVLNQ VLDREEIPEFSLTLTALDGGSP RSGTALVRILVLDVNDNAPDFV RSLYKVQVPENSPVGSMMVSV SARDLDTGSNGEIAAYAFSYATE RILKTFQINPTSGSLHLKAQLDY EAIQTYTLTIQAKDGGGLSGKC TVVVDVTDINDNRPELLSSLT SPIAENSPETVVAVFRIRDRDSG NNGKTVCSIQDDLFPILKPSVEN FYTLVTEKPLDRERNTEYNITIT VTDLGTPRLKTEHNITVLVSDV NDNAPFTQTSYTLFVRENNSP ALPIGSVSATDRDSGTNAQVIY SLLPSQDPLPLASLV SINADNG HLFALSPWTTMPLRAFEFRNNS PALHIGSVSTAETNIQVTYSLLP PRNPHLPLASLV SINTDNGLF ALRSLDYEALQEFEFVRVGASDR GSTALSSEALVRVLVLDANDSS LFVLFPLQNGSAPCTELMPRAVA AEPGYLVTKNAWLS*QLLKAT EPGLFGVWAHN/GTDRLLSERD TAKHRLMVLVKDNGEPPRSAT

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23868	54236	A	24006	1	1960	MEARVERAVQKRQVFLFCVFL GMSWAGAEPLRYFVAEETERG TFLTNLAKDLGLGVGELRARG TRIVSDQNMQILLSSLTGDL NEKLDREELCGPREPCVLPFQL LLEKPFQIFRAELWVRDINDHA SVFLDREISLKILESTTPGAALL ESAQSDVGTNSLSNYTISPNA YFHINVHDSGEGNIYPELVLNQ VLDREEIPEFSLTLTALDGGSP RSGTALVRILVLDVNDNAPDFV RSLYKQVPENSPVGSMMVSV SARDLDTGSNGEIAFYASYATE RILKTFQINPTSGSLHLKAQLDY EAIQTYTLTIQAKDGGGLSGKC TVVVDVTDINDNRPELLSSLT SPIAENSPETVVAVFRIRDRDSG NNGKTVCSIQDDLPILKPSVEN FYTLVTEKPLDRERNTYINITIT VTDLGTPRLKTEHNITVLVSDV NDNAPAFQTQSYTLFVRENNSP ALPIGVSATDRDSGTNAQVIY SLLPSQDPHLPLASLVSNADNG HLFALSPWTTMPLRAFEFRNNS PALHIGSVSTAETNIQVTYSLLP PRNPHLPLASLVSINTDNHGLF ALRSLDYEALQEFEFVRVGASDR GSTALSSEALVRVLVLDANDSS LFVLFPLQNGSAPCTELMPRAA
23869	54237	A	24007	1	966	MGHHLMDKLVALLGGLYYAIQ RHYATKCSVLKNDQILVIGLFM IQNVYRKHFANPLSALFLQGGI ELFAAIAEIHITTVAERNHAITQI RLEAQTIFDSLKEWHNAIRKSL DYEALQAFEFVRVGATDRGFPAL SSEALVRVLVLDANDNSPFVLY PLQNGSAPCTELVPRAAEPGYL VTKVVAVDGDSGQNAWLSYQ LLKATEPGLFGVWAHNGEVRT ARLLSERDVAKHRLVVLVKDN GEPPRSATATLQVLLVDGFSQP YLPLPRAAPAQAQADSLTVYL VVALASVSSLFLFSVLLFVAVR LCRRSRAAPVGRCSVL

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23870	54238	A	24008	1	2673	MEVMGNMGSKILITGITSTKRK VALLAKKRERKIIISQRKDVTD RAKRQSEESIGKETVVIGIGLI SKDSAAAICESRWLSESHFER LIQRRMEARVERAVQKRQVLF LCVFLGMSWAGAEPLRYFVAE ETERGTFLTNLAKDLGLGVGEL RARGTRIVSDQNMQILLSSLT GDLLLNEKLDREELCGPREPCV LPFQLLEKPFQIFRAELWVRDI NDHAPVFLDREISLKILESTTPG AAFLLESAQSDVGTNSLSNYT ISPNAVHINVDHSGEGNIYPEL VLNQVLDREEIPEFSLTLTALDG GSPPRSGTALVRILVLDVNDNA PDFVRSLYKVQVPENSPVGSM VVSVSARDLDTGSNGEIA YAFS YATERILKTFQINPTSGSLHLKA QLDYEAIQTYTLTIQAKDGGGL SGKCTVVVDVTDINDNRPELLL SSLTSPIAENSPETVVAVFRIRD RDSGNGKTVCSIQDDVPFILK PSVENFYTLVTEKPLDRERNT YNITITVTDLGTPLKTEHNITV LVSDVNDNAPFTQTSYTLFVR ENNSPALPIGSVSATDRDSGTN AQVIYSLPSQDPLPLASLVSI NADNGHLFALRSLDYALQAF EFRVGATDRGSPALSSEALVRV LVLDANDNLAPFVLYPLQNGSA PCTELVPRAAEPGYLVTKVVA VDGDSGQNAWLSYQLLKATEP
23871	54239	B	24009	1	993	
23872	54240	B	24010	1	4056	
23873	54241	B	24011	1	906	
23874	54242	B	24012	1	4318	
23875	54243	B	24013	41	1935	
23876	54244	A	24014	3	328	GWQSGPVLGGLCGTAGQSCGD GDGIWWAQAQAQAGDPAHLRL LTHGQPSSVPEAPVRAHQPALP QPRSAARECGR/AGRSTTNSL RKRVASESYMIVAPMPSSWSS SG
23877	54245	A	24015	114	567	VKKPHSAEWVPLWGLQPGWR QPFRCSGSEKELRRPVNSQEI LSPVTMRKPAVSVCCDLTLREA APPFQRHERTYTGEKPYKCKQC GKAFSGFCYTQILEKAQTGKQP YE/AHERTHWKQNHDTQFGK AFSFSLSLCIHEKIHTGEKLYE

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23878	54246	A	24016	170	491	PAQHQRGLWQSPTHQALTLML SVHREDWKPVLINSIYGLQYL FLESKNRWLGLERLGFPCPSGLIT PPTCTGHRSP/NPEDPLNKEAAE VLQNNRRLFEQNVQRSMR
23879	54247	A	24017	1	1062	
23880	54248	A	24018	2	700	RRPTRPGGGSGGGGGRMIKLF LKQQKKEEESAGGTGSSKKA SAAQLR\IQKDINELNLPKTCDIS FSRSQTLLNFK\LVICPDEGFY KSGKFVFSFK\VGQGYPHDPPK VKCETMVYHPNIDLEGNV\CLN ILRGDWEASPLRLNSIYGLQY\ LFLAEPNPEDPLNKEAAEVLQN NRR/VCFEQNVQRSMRGGLHPA PPTFERCLKIGLAHTHPPPRQA LASPAKYLLGAMG
23881	54249	A	24019	302	884	PMAPLSSQQPTLFPNTLTQAQQ VQLTKGLRKWMVQHGGDGW VVEENRTTVPGAPSQTCFVTSF/ EVNAPAIQSWCCKQVLDLEE EGLWPELLDSGRIEIVSDWWG ARHDSGCMYRLLVQLLDANQT VLDFSAVPDPIPQWEQQCLPF TFTHVFFQHRSRWGVRFCVFSEH RGPETHSSGAGPLLSPCEQLQC
23882	54250	A	24020	274	866	SLLNLPSSWDYGWVSYEQAN CKGEQVFEEKGEYAHWDWWT SSQRTDFSSLR/RPSKVDSQEPK V\YLYENPNFTGKKMEIIDDV PSFHA\HGYQEKVSSVWVRSG MWVG\YKYPGYRGLQYLLKKG DYKDSSNF\GARHPQV\QSVRCI HDMQGHQCGAFHPLGTQEEEE AGQKEQMEQVPFWLARGDICE LSGKKSVI
23883	54251	A	24021	179	374	AASIGRSMTEKAHAGPRPGRN* ADAPSSDTLFPDALLSNQAG RLACWLFSYGPQTKNDFHFK
23884	54252	A	24022	1	141	

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23885	54253	A	24023	1	506	PHSPLWKTLCSPSSGVCCGFVT LFCNDRFACLFQLTPPPSPAWM TAAASLLASLLPALPPLNLQDA KFVEERRKQLQNYLRTVMNKKV IQMVPEFAASPKKETLIQLMPFF VMGLQVGMVGLFHFGVMMDQ PQPSLTRADESPCDRVLSPCAA HRKQRDCCLSWKAEPE*FLVK* KTLCSPPSSGVCCGFVTLFCNDR FACLFQLTPPPSPAWMTAAASL LASLLPALPPLNLQDAKFVEER RKQLQNYLRTVMNKKVIQMVPE FAASPKKETLIQLMPFFVMGLQ VGMVGLFHFGVMMDQPQPSLT RADESPCDRVLSPCAAHRKQR DCCLSWKAEPE
23886	54254	A	24024	1	396	
23887	54255	A	24025	1	1176	MVPGDLSQTSQSLDSEISN RALINWIPSVFLRGKAANAFH VYQQSIAGVSGIARKRALIPFGK STFSYVCITNIKLTALPSWDYT CHFNLPKAQKPGPTKILTME WLALLQGDPGSWIQKEFIVGKR GGKMDNILWDQRDVQPPGLRP HQLLHSGGGPLISFRNGGPILV WELRRKGASGKEIVGSRVFRES DEVLVWKNPKTLQKEDEEVNS THPMHTYPCTHCQVFCVTAELI NIYLQACIVLEMSMLPPGERPLF LLRLTTVLEVTVFDSQWSRPYH VSADPSAWKHHHHYHHHHY QLSSSSPTITIINHPSPS/LSHASPS P/CHPSPPAVHHHHQPSITITSR PSPSPAVHHHHQPSITIIIRPSITI INHPSQASSIHHHHQPSIPFIVSH
23888	54256	A	24026	1349	2125	
23889	54257	A	24027	670	972	KTDEWNIYRRYTEFRSLHHKLQ NKYPQVRAYNFPPKKAIGNKD AKFVEERRKQLQNYLRSVMNKK VIQMVPPSSLPAPKKETLIQLM PLLRTSTPPRRAL
23890	54258	A	24028	1	699	

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23891	54259	A	24029	221	864	VDCPRSFSAVVVWQGRFWLLS FIPGGFLGMTLFFASGMNWTVT LLGFLAGNLEVEPSDTIENVKA KIQDKEG/PPDQQLIFAGKQL EDGGT LSDYNIQESTLHLVLR LRGGMKIFVKLTGKTITLEVE PSDTIENVKAKIQDEEGIPPDQQ RLIFAGKKLEDGRTLSEAIFLDV GLLLSCRTVSSCGAFILGWSVVI LIPVISTRDDTSTTK
23892	54260	A	24030	2	864	PSFRLAWPEGR LALLGELVCVP VVGRGMENGRILVSADRSGGHI CLKTLTGKTTITLEVEPSDTIEN VKAKIQDKEGIPPDQQLIFAG KQLEDGRTLSDYNIQESTLH LVLRLRG\GMQIFP*RP*PAKTI TLEVEPSSHHRKF*RARFQGKE GIPPDQQLIFAGKQLAEDGRT LSDYNIQESTLHLVRLRGGM QIFVKLTGKTTITLEVEPSDTIEN VKAKIQDKEGIPPDQQLIFAG KQLEDGRTLSDYNIQESTLHL VLRLRGGC*FFSHGIRSAQ
23893	54261	A	24031	1	124	
23894	54262	A	24032	97	296	
23895	54263	A	24033	71	269	AAGYRPCPRHPGARRTAATTR CHPSPAVARPAGCSGPP*CYAL SPDPARTRRGDPQTTPCRLPRA G
23896	54264	A	24034	206	667	STRGLPKCWDYRREPPRPAKS SFLTAQACEAQKTGSATTRKD CFLQPTFWLLPFLVLEKGAPSA CRGKRYVRAVWLSLSTGAILQP YPKLQVSNWL*CARDQEMPEG CL*QSCQTL SLLVLPPEKKDV *EISPWTPAPPEHQYTVRTFQSP
23897	54265	A	24035	3	190	GTFKNDLILLISKSY*APLPSD FSHSDTSS*KPSKSLKTPSPFF SAKTSLLQCPRNILY
23898	54266	A	24036	197	474	SPLSHRGASELLSSLHLRSCSS PKMAETPEAGFQIVHSASPQPG TAPGNPWAAGAGG*HCEPGQL AGPYRAASFQQA WPPHPRAK LGVSRL
23899	54267	A	24037	164	323	GQEIKTILANMVIPRLY*KYKKI SWAWWHAPVVPATWEAEAGE LLEPGRQRLQ

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23900	54268	A	24038	582	1166	HCEPGQLAGHLGQPLSSGRLGH LMASHKLSNNYYRTRDGRRES VPPSIIMWSQKALVSG\KPAERV YGDANHTVGNMCASRLGGYL GFSIRIVVFIWYLGLSVVVNML VGRQCDWQGLVYGQPELLVFS GNMPGEVARGKHRNEKAPLSM RPASQCRVFCVLKGCSESRHK EQTPDTTIFKNCNTHCEGPWLH
23901	54269	A	24039	1214	3878	
23902	54270	B	24040	62	1242	
23903	54271	A	24041	74	408	
23904	54272	A	24042	790	1877	DEIVDPGSMKWSYKSQLNYKT KRPSVFVTALTHRPAIDILGTLE SGHSRNLTCSPWACKQGTPP MISWIGASVSSPGPTTARSSVLT \\LLPQSPQDHGTS\\LTCQCTLP TGVTTTSTVRLDEAYPA\\WNLT MTVFQGEGTASTTLRNGSALS LEGQSLHLVCAVDSNPPARLS WTWGS\\LTLSPSQSSNLGVLELP RVHV\\KDEGEFTCRAQNPLGSQ HISL\\SLSLQNEYTGKMRPISGV MLGAFGGAGATALGFLSFCIIF VGVRSCRKKTARPTMG\\VGDT GMEDT\\NAV\\RGS\\AISQGTPELN PRQKEQAPQNHGSANALANPP RPEEGEIQYASLSFHKARPQYP QEQAIGYEYSEINIPK
23905	54273	A	24043	183	1176	VHQLVFP\\RQHQRHSVFPKANSS WIHQLFPQ\\QHSYGPSAVSAGQ HQLMVHSLFPQATPAHASISLV FRQGTHQLHRVHQRRI\\PSAQHQ RHRLHQRRLPSAQHQRHRDSIS VCFP\\FRAHTRPHCDSIQ\\RQHQL MRSIGLFSSGKTDPTVTLLKEA AAEHEICLCSRHPVNLRET\\KAH LGNAAHAVFPRGNQKKPEMCP YLPTHKL\\VVP\\TPPLIPLEAALRN IAHSRSIPPPKKFSPTP\\DTSDDYL LVFNSFPY\\SKLTT\\PKTGQGENL GSTRP\\IPCNGP\\PTRGPHNGAKY PGDVSHPVGVGT\\LWANRL\\LTG QYEENGKSFLLICTIATFQVNA
23906	54274	C	24044	178	342	
23907	54275	C	24045	86	283	
23908	54276	C	24046	91	177	
23909	54277	C	24047	11	169	
23910	54278	C	24048	209	673	
23911	54279	C	24049	164	208	

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23912	54280	A	24050	182	255	DAESRRSWQPLPEPLELRPLSD
23913	54281	A	24051	146	456	LKNHKKRSEKPCPTLTDDIPPQK KCKWPVLALSADITL*KSFSWL ILAQKAPPLSTL*PPLLPAREQM SFD\LIFLYLPKSYKVAPPLSSFT ESLFGLSPPAPR
23914	54282	C	24052	90	215	
23915	54283	B	24053	1	1059	
23916	54284	C	24054	129	215	
23917	54285	C	24055	19	347	
23918	54286	C	24056	228	260	
23919	54287	B	24057	406	602	
23920	54288	C	24058	7	375	
23921	54289	A	24059	322	400	FLLSRVPSV*DPTENQTVQLTWEWLP
23922	54290	A	24060	818	1078	ILDVFSYTMKIEPSPLRSYPISPH YNL*QLPP*LDP*ESGYKTPLSA LLLTFLLYISSFASHKVSSSSVD PLPTCAYLPIGQAHVH
23923	54291	C	24061	1	411	
23924	54292	A	24062	1	861	
23925	54293	A	24063	425	484	
23926	54294	A	24064	1844	2097	HSAGTKLRLVNFLTLRRLVNS VMRLKKSFMVQRMVSIKPV WSISLGFLLSFVPSVWDPT/ENR TVQLT*HPLPELELGPRLSD
23927	54295	A	24065	729	807	LFSCSCPPKPPRP*LTAEGGLC IFL
23928	54296	B	24066	1	1317	
23929	54297	B	24067	509	810	
23930	54298	A	24068	1	385	MDLPSTVRVTRSSASVMVQGG SEAIRQRQSSAAKPRRSKGESKS LGPEFQGLWEWLPEIYFSQFRR LGNPKSRHQIQCLMGACFVV TERLSFQDSLDAEPRHSYPLQ VKRLDLPTVLETETDLEKLDPF TTIPSPVETLQCLFVSLRIKSRVP *FWISQPPEL*EINFWQPLPELE LWPKAL
23931	54299	B	24069	1	774	
23932	54300	A	24070	350	640	SLQGCLSDNSPTFQRCQTTQGR LPWSFTLSGKSHFSGGVARACY TCQKSGHWA\RNASSPGFLLSR VPSVSDPTENRTVQLTWQPLPE PLELWPKAL
23933	54301	B	24071	85	331	
23934	54302	B	24072	1	1844	
23935	54303	B	24073	1	1169	

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23936	54304	A	24074	63	220	NLTGNIWNREWYSHFDLDD PVGFSGSIKMPKRKLFKCHSV *GHWRSKSE
23937	54305	B	24075	497	898	
23938	54306	A	24076	3	678	GGGFSDRDRRTIALQPGQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGEKFYFIPKAMG AMEGSGQRRTLDPGAHRNPS GGYSATDCEGSRPAPGEINSHA SHTKPVWWFFTQTRMKFGAVT RIGGLPWVNPPLSSCSLLRE/KD PPTTSGPQSNQPRKH/LTNFKSG A/CYTCRKS GHWAKECPLPGFL LSRVPSVWDPTEN/RTVQLTWQ PLPELELWPRLS
23939	54307	B	24077	522	873	
23940	54308	B	24078	329	530	
23941	54309	C	24079	147	439	
23942	54310	A	24080	3	3889	
23943	54311	A	24081	2	394	
23944	54312	A	24082	1	197	
23945	54313	A	24083	1	205	CLRAGPHALYLLC/NIPEFTFLS RADFARSQVLVDLLTDPFQ\QEL EELLQVGAVTLILRILPCLPCLP
23946	54314	A	24084	134	182	SCFIPSSQPVAGTERSRLGPQY FQTPHNPSGPGLGNQLMR*AF
23947	54315	A	24085	257	481	
23948	54316	A	24086	415	630	
23949	54317	A	24087	123	340	
23950	54318	B	24088	49	270	
23951	54319	A	24089	1	900	RSRVRRREVVALRRGLACIPSLG VWRFPSVGVLA VSDRWCLAVS DRWCLARATLSCFGCAMPYQ TRRQENDLRTASIAV*RRKQQN DH*KQRRWQNIQRKGPKRYIVI AGNSQSHQPMIFSMLRKLPKVT CRDVLPEIRAICIEEIGCWMQSY STSFLTDSYLKYIGWTLHDKHR EVRVKCVKALKGLYGNRDLTA RLELFTGRFKDWMVSMIVDRE YSVAVEAVRLILILKNMEGVL MDVDCESVPIV*ASN*GLASA VGEFLYWKLFPYCEIRTMGGR EQRQSPGAQRFFQLLL

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23952	54320	A	24090	1	812	MARTPGAELAVAKYPPKGSQA VHRHSRKQSEPPANDIFNAAKA AKSDMQHREVRVKCVKALKG LYGNRDLTARLELFTGRFKDW MVSMIMDREYSVAVEAVRLLI LILKNMEGVLMVDVDCESVYPIV LFYPECEIRTMGGREQRQSPGA QRTFFQLLLSFFVESKLHDHAA YLVNDLWDCAGTQLKDWGL TSLLEKDQSTCHMEPGPGTFH LLGESPGISAIVQGAIEKSGERSS PPPKRIGSMKEGPMVLPLALDT QCWFPVEVPLD
23953	54321	A	24091	152	1209	MPLKNVQNITHFPLEKELALPL LIFSPLHWCVSGYLSLPLPNPKP HFSNPLLLQVILPALTLVYFSIL WTLTHISKSDASPGECGS*MG* WEQRNLCPSILPLQSPCLPTEAA VEFEGTRMVAFCCLCQSCLS VDTEIP/ESR*VLAQSGRKKA EYPCPPFP RRN*QCHYLPWETFCPF KHPPFSPLQAFVLLSDLLIFSP QMIVGGRDFLRPLVFFPE\ATLQ \SELASFLMDHVFIQGRPGQW CSDSIPGAQ*GLGLGCSSKI*GR KLKSVIPFCLPCEPGDSQEDHLQ IERLHQRRLLAGFCKLLLYGV LEMDAASDVFKHYNKVHQQPS LGFTKPLVMPRFSAA TV
23954	54322	A	24092	37	625	SLMLLTPFHFPPECPPIPTAH HLLPFLSTWELFLQQLQEVVV KHAEPVLEAGAHAL\YLLCNP EFTFFSRADFARSQ/LV*DLLTD\ RFQQ\ELEELLQGRELGAGTMG DTPNKGWGGGCKTGGMWDL MSSGGKCYCGIFFSFSILPSQIED EVYNLGSHSETPLCLLQVSGFP PLPHPVFTGVCGVGSLSCSFPV
23955	54323	A	24093	2	198	PNDRSRVTREMSAPSRSLGRFL SVGVWHAPPSLALVPPCRCTRL KTYHGRGAPLRVELPTCMYRL SNVQGRSGGPAPGVGHLQSLV DEWLDSYKQDQ\ DAGFL\ELVN FFI*S\CGM*RNSGDYPLTAPGL SWKKFQGSFCEVGTLCRCQ YILLHDDFPMDNLISLLTGFS DSQVCAF\RHTSTLAAMKLMTSLV RVALQLSLHQDINQRQYEAER NKGPGQRAPERLESLEKHKEL H*YQAKNLSRARCASTCGASH
23956	54324	B	24094	211	3841	

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23957	54325	A	24095	1	1798	MSLLAFKIILVGFEGSKARVQT DLFYRSLVLFLLQLICFPLSCFG NWKGEEGGMQRWVLGKNEKI ASPHRLPAPTARFAVSLQLNLRI LGAFQFGPVLFVLWRPLDRDN ASPOSEFLNSCGITAYLVGKRE GGVERGGGGRSSERCRTLSFS PRHSHVFSTSRFCILKKSPGAN GGRCRARGGGLHGARAANPPT PIAEPARLPACLSRAEPEPQAAE PAPPPVGVVRSRPLSHRRHPVV CPAAPIRLINKRLAHSARPAGIC CVSRSGLSALAAAGTASMFQLP ILNFSPPQVAGVCETLEESGDV ERLGRFLWSLPVAPAACEALN KNESVLRARAIVAFHGGNYREL YHILENHKFTKESHAKLQALW LEAHYQEAELRGRPLGPVDK YRVRKKFPLPRTIWDGEQKTHC FKERTRHLLREWYLQDPYPNPS KKRELAQATGLTPTQVGNWFK NRRQRDRAAAAKNRSQTSPWA EAFRPECGSRLAKHFAEEPGLI PQAQMLLTILFAFRSGRPDPTRS REHLLRRKPQADAPLEMLQQQ VLSQSGRALRAEGDGTPEVL GVATSPAASLSSKAATSAISITS
23958	54326	A	24096	3	1034	GLHGARAANPPTPIAEPARLPA CLSRAEPEPQAAEPAPPPVGVV RSRPLSHRRHPVVCPAAPIRLIN KRLAHSARPAGICCVSRSGLSA LAAAGTASMFQLPILNFSPPQV AGVCETLEESGDVERLGRFLWS LPVAPAACEALNKNESVLRAR AIVAFHGGNYRELYHILENHKF TKESHAKLQALWLEAHYQEAEL KLRGRPLGPVDKYRVRKKFPLP RTIWDGEQKTHCFKERTRHLLR EWYLQDPYPNPSKKRELAQAT GLTPTQVGNWFKNRRQRDRAA AAK\NRLQQQVLSQSGRALR AEGDGTPEVLGVATSPAASLSS KAATSAISITSSDSECDI

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23959	54327	A	24097	3	1024	GTRVGVAWRSVRLLGPGAGL RGGVVLKVSPSPCRGGRRVPVR AEGARGRGPINKVPGASSGAA VGAARLTAPLLAKAMASKLLR AVIL\GPPGLGKGAPVCQRIAQN FGLQ\HLS\SGHFLRENIKA\STE VGEMAKQVYREKVFLVPDHVI TRLMMSELENRRGQHWLL\DG FPRTFGQAEALDK\ICEVDLVIR LNISFETLKDGLN\RRWIHP\PSG \RVYNL\DFNPPHVHGIDVTGE PLVQQEDDKP\EA VAA\RLRQY KDVAKPVIELYKS\RGVLHQFS GTET\NKIWPYVYTLFSNKITPI QSKESILTLAQWEEPGRCSFIP IVWCSNWCCCPNLEA
23960	54328	A	24098	2	178	
23961	54329	A	24099	96	340	FGALTRIG\DLPEINPLSSCSLL PEKDPMTSGPQTDQPKHELTN FKSAARRSSRTSSHRNLLHVLEI WQLDQGMPAARDS
23962	54330	A	24100	3	155	
23963	54331	A	24101	1	162	
23964	54332	A	24102	1	1032	
23965	54333	A	24103	167	476	TAMLLTQSLFGGLFTPTHMKFG AVTQIG\DLPEINPLSSCSLLR EKDPPTTSGPQTHQPKHELTNF KSDHHGCRASGNSHSGRMLLI SPSRGLYACSCVKT
23966	54334	A	24104	371	772	
23967	54335	A	24105	146	312	QKRSIPNSSPIP*SHSLLANCTK/ DHHFLNGSKSFQPQLSCKFS* GQHLLFQALCT
23968	54336	A	24106	76	441	
23969	54337	A	24107	1	1284	
23970	54338	A	24108	150	371	EESRAAGIPWPSGQISGTC SKL\ CGRRFWRNAWPLRFRHLEVLV CWRCGCGLSHSGGKELQLFSII VHLEGEVN
23971	54339	A	24109	280	351	
23972	54340	A	24110	1	483	
23973	54341	A	24111	129	363	FGVVTQIG\DLPEINPLSSCSL LCEKDPPTTSGPTKKHLTNFKS SKRPLFTLFSNLPHYPSTSFQFS WRYTSISPF
23974	54342	A	24112	2	111	
23975	54343	A	24113	3	808	

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23976	54344	A	24114	497	815	TALLLTQILFGGLFIWTRVKFG ALTWIG\DLPWEINPLSSCSLLH EKDPPTTSGPQTDQPKKHLTNF KSACFERIKACYHSPATAWPFK AYKLSLQFPHTCPKTR
23977	54345	A	24115	1	753	
23978	54346	A	24116	1	513	
23979	54347	A	24117	625	701	IHVAHKLAVVMPGCKRGCLSL FYFQLIWSHKGWVRSGEASHR EMAGLLLLCSS*PPSPCETLPRS EPSLCDSRSAESRTKTSNLSCIP ASLQQVCGPREFIWSGNHCHPF LPITRCYGCCLCYHYCMENSIL
23980	54348	A	24118	458	605	VVEEGIEDKRVYRLGTTGWIGK TIWLVRRRS*TNL*DLSGFWTG KMDEL
23981	54349	A	24119	566	769	IKEKGGLFSFSASNLWKQVTSS FLCSPLPLSLLKSKLLANRDKY RMC GPVPANGNRTQQ*SKHVR
23982	54350	A	24120	345	664	GEIAASQEPAGGFSGSSAQPCPL PWTGPPTTQAPGH/CNSAPSSRD NASSNGGRRQRVPTVPGGGLIL QREHILLPLGPALRAAGKEPAT AATIPESPGDSDDSRT

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23983	54351	A	24121	2	2204	IDMIFTGPPSTPKHKKSQKGS AFTFPSQQSPRNEPYVARPSTSEI EDQSMMGKFVKVERQVQDMG KKLDFLVDMMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTIICNYSETGPPEPPYSF HQVTIDKVSPYGFFAHDVPNLP RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSDRISPRQRSITRDSOTP LSLMSVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGISDSTVPLFLSSEILQKQVG QSITSMGLFLSRGSPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDF ALLVDIIGNSTSYLTEIFKSTSIL SVNQSNESDCIFICVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIG\DLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPTFLGQGQVPLNPF SFTLSGKSCFPRRQEPNRLFPH PNLLSLCPNPLFLCPNPFSTFLE GKNHHPHPSVSQVFSGLGLPPS LWEHSPMAHRLRVQPRQQPPDI HKQVISLQSGHSLLVKSQSWSQ DPIKFQLPHHHKNTASVCINPSV
23984	54352	A	24122	2102	2529	ETTMSFIFSLLYPFRMHLSFLIVS PALRSISRRLAAFPGRSLDLQ PAMPEPPTPS/CGLLCVPS\PPMS AAPCSKVPQSHLFAFMSCNTAK VCSFTAASETTSPPGGTNNSR RATLRAVTLTRRSATLTRRSAA SHRSSTV
23985	54353	A	24123	299	567	TAMLLTQSLFGGLFTQTRMKF GAVTQI\ADLPWEINPLSSCSLL HEKDPPTSSGPQTDQPKHLTN FKSGETKEMHFIRGPKTPAPVM
23986	54354	A	24124	684	822	KVKRQSYSQNTFYYPICSRH*IK LQKLNSGPQTPQQDLINLAIKV

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23987	54355	A	24125	1163	1826	TVLLLTQSLFGGLFIWTRMKFG AVTR/IRGDLPEINPLSSCSLL HEKDPPTTSGPQTNQPKELLTN FKSVPTPSVAESFQSSFSTDPSPD PSSPPQAAPRQAKPGPNSSSASA PRPYNPFITSPHTWSGLQFHSA TSPPPPAQFPLKKVAQVKGTV KWLKTDAAARSPQKPTGTITDAL DNSHSGGPIMDRPLLVKSPKQF LRLLVFSKTFISLTILNLQE
23988	54356	A	24126	636	922	TATLLTQSLFGGLFTRTRMKFG AVTRIGADLPWEINPLSSCSLLRE KDPPTTSGPQTHQPKHELTNFK SDKGDMFYPTWTQNSSAGHGLG RQPSLGV
23989	54357	A	24127	728	1013	MKFGAVTRI/RGDLPEINPLSS CVLC/CREKDPPTTSGPQTDQPK EHLTNFKSGKRPAFYSLQPPSL SLNFLLSILAPHFNLSLLISIPF IFW
23990	54358	B	24128	1	3993	
23991	54359	B	24129	105	420	
23992	54360	B	24130	45	2866	
23993	54361	B	24131	1	1680	
23994	54362	A	24132	1257	1403	
23995	54363	A	24133	1	2130	
23996	54364	A	24134	1	725	
23997	54365	A	24135	2825	4123	RAADGVITLEDNDPCVKKDSSR FPYEDRLDLVLKGTADIPRLTV HRGSEYIISRATFPCYFIKEQSVI NHCYTEIDLKIFRQYLAPALGV THRFVGTEPFCRVTAQYNQDM RYWLETPTISAPPIELVEIERLRY QEMPIYASRVMFIFRPDNTALP RNDTPQMVKLFMDRFQVVKDI GVIELKVVEDQRTAVMIKFRA FVKEGAVIVIRFDNKEVAFAQM SGNLTVPRSTSDYKARDIFFQY RFLTRISTGHGVANNHQIRLRL ELAGIVPLNQLNALLLVYPLS KLCNSPKKCQLESVFRLTQWV VKKPISNRQSGLGIVLPGLFRV LSPGNLSPIKGTIVLPNEVQPGF LGNLVGPI/RGWIGLS*IYLPHGF TG*QNSAGLADH*RASASPERA GVYPIHNERCAHRASRY*KW HPDSVAADHLLG

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23998	54366	A	24136	137	1199	ISSGGPRELGLKMIIVPGSQLSQ LPPGLDSTEFAAIVGNLLDNAF EASLRSDEGNKIVELFLSDEGD DVVIEVADQGCQVPESLRDKIF EQGVSTRADEPGEHGIGLYLIA SYVTRCGGGITLEDNDPCAPLT LLIVEDETPLAEMHAEYIRHIPG FSQILLAGNLAQARMMIERFKP GLILLDNYLPDGRGINLLHELV QAHYPGDVVFTTAASDMETVS EAVRCGVFDYLIKPIAYERLGQ TLTGFPQQRKHM LKSIESATQKQ IDEMFNAYARGEPKDELPTGID PLTLNAVRLKFKEPGVQHTAET VAQALTISRRTTARRYLEYCASR HLIIAEIVHGKVGRPQRIYHSG
23999	54367	A	24137	2	243	RPGRGLGQRGIWEPAAALLDSV AQQQGAWLPHVADFRWRVDV AISTSALARSLQPSVLMQLKLS DGSADLEKRCERRLQD
24000	54368	A	24138	1	1483	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVA AHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWWPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCLALHRIETELMGKFDEGKL PTDPLMLRLAIETVAHDYDVI VIDSAPNLGIGTINVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEPSDLRYLQSC EWGDTGIFLKWSCIPAEKGLQT SGAWVEAADIPLLPGSPRRLSP QAGSRGGQGPKHGQCLKMP GPAPGLQGGSNRDP/AP/GPAV ERAPAAALSSTTIWMPMSLCP WRPVLAACSTMTVRGRSTMYL PTTTGNAGCTWPKASLATRWL SSPMGRQARSLMLGAQVTLWS DRSMPWRRRGRSSGRNLSTI

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24001	54369	A	24139	727	1498	GICIWDRPPGLADQRRSHSHGW WGELATPLPWHH/HLSDSHSG\ RVSFLGAQLPPEVAAMARLLG DLDRSTFRKLL\KFVVSSLQGED CREAAA\VLGSAPTCCR\AAGC \LLAGMHTLLQQALRLPPTSLK PDTFRDPAPGALHPPRPGRGL\G QRGWE\PSGPSFDSVAQQARV AWLPHVA\DFR\WRVDVTIST\S AL\ARSLQ\PSVLM\QLKAFQNG SSIPAFEVPPQPKF\QEL\RYSV\A\ LV\LKEMADLEKK\CE\RN\LD
24002	54370	A	24140	1	312	
24003	54371	A	24141	2	524	
24004	54372	A	24142	144	494	AGSCPFAAGPGPLGSGRCFVLIR FIL\QNRAGKTRLAKW\YMQFD DDEKQKL\EEVHAVVTVRDAK HTNFVGVSGTFKILPPLCWPLL LASVWMFNDNKPGLYLGGPFH NFRGRS
24005	54373	A	24143	1	428	
24006	54374	A	24144	108	422	
24007	54375	A	24145	3	387	
24008	54376	A	24146	3	337	TRLMLLDRSGQGKVYGLVGR* RFQQMDVLEGLNLLITI*RNRN KLRVYYLTWLRKIMDNDPKLE KKHDWTTAGYMEGCGHYRVG KYERIKFLVIALKSSAEVYAWA PKPY
24009	54377	A	24147	1	340	ERTRMNKQHNSTLAKSRPGNT GPEPLMPQASPGPPGPLSQTPP MHRPVEPQEGPHKSLVAHRVP LKPYAAPVPRS\QSLQDQPTRN LAAFPASHDPDPAIPAPTATPSA RGAV
24010	54378	A	24148	335	869	ATPTLILSQKSHFWPQPLSSVLK LTSGPEISLQSSPSPICRMKKRR LSPLASGLES*VKSGEWCEVLS RAPLFP/HNPSQAAP/EWEMQG TRPSIPHLGLAGLPTQLQQGRL WGYRNPASPFRTRVAARDCA KQVRTGPDARLEGSRPGVRAG LGWGRGYSERVQTCAKSSVSPS
24011	54379	B	24149	158	5640	
24012	54380	A	24150	1	1854	

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24013	54381	A	24151	1	1510	MPCGKQGNLQVPGSKVLPGLG EGCKEMWLRKVYGGGEVWGK SPEPEFPSLVNLCQSWKINNLM STVHSDEAGMLS YFLFEELMRC DKDSMPDGNLSEEEKLFLSYFP LHKFELEQNIKELNTLADQVDT THELLTKTSLVASSSGAVSGVM NILGLALAPVTAGGSLMLSATG TGLGAAAAITNIVTNVLENRSN SAARDKASRLGPLTTSHEAFGG INWSEIEAAGFCVNK WVKAIQG IKDLHAYQMAKSNSGFMAMV KNFVAKRHIPFWTARGVQRAF EGTTLAMTNGAWVMGAAGAG FLLMKDMSSFLQSWKHLE\DG ARTETAELRALAKE\LEQELD RLTQHHRHLPQKASQTCSSSRG RAVRGSRVVKPEGCLATSQPH QHQQERGDRPREDTDNEKRG EKWSDFGSVLKGEPTGFVHGL DLWCEGKKSQDNGGL WPEQL AGWSCWHLKWTGGSRLPVP VLDAACTGTLSPDLTSWRYHPS SIPLPKQPLQHGF
24014	54382	A	24152	3	515	VGTQAGAAGPVQFLSSAWVA L\HETELPPLTAREAKQIRRE\MS R\SSKWVDM LGDWEKYKSSRK LIDRAYKGMPMNIRGPMWSVL LNTEEMKLKNPGRVYQVRSARA QPTGQAVSGAQVSSWRERQDH PGELGVKIMKEKGKRSSEHIQQ MDLDVSGTLRRHIFFRDRYGT
24015	54383	A	24153	1	1317	
24016	54384	A	24154	1640	4841	TITGSSPLAGGHHSTCRGRMDM VENADSLQAQERKDILMKYDK GHRAGLPEDKGPEPVGINSSIDR FGILHETELPPVTAREAKKIRRE MTRTSKWMEMLGWETYKHS SKLIDRVYKGIPMNIRGPVWSV LLNIQEIKLKNPGRYQIMKERG KRSSEIHIDLDVRTTLRNHV FFRDRYGAKQRELFYILLAYSE YNPEVG YCRDLSHITALFLLYL PEEDAFWALVQLLASERHSLPG FHSPNGGTVQGLQD
24017	54385	A	24155	1640	4056	

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24018	54386	A	24156	479	3902	GQVDEDVSVKMDTVPGVNLSC ILNEMRDQDKKLVEKSYKDAK GCFFSMGEP SLIDPCLEV CYGT QLAQLQGLIRSMEEQLCELCCD AEHQDHEHQVLLDVKTRLEQEI ATYSRLLEVEDAQGGPIVMRA MTSECHWCLAPIRSPDCVCVLR QLHTRSGIHKRFGLKGFLPER HNPGQLIHQNSGCCSRMYPFD RKLGISVALNIPGGRSYRDLWC LTAVHIHIPGIDHHRFLTGRM DMVENADSLQAQERKD
24019	54387	A	24157	780	983	QHQLIGHKYQRSHRSL*AEPE* LECHQPD LAEPADGPPLTTRYG IVNAEMGLEQLLPKGPSLKEAK
24020	54388	A	24158	773	2016	DWPTLRENKREPTLKYWGLVP LISGMPTWFFFFLSACGNLIPSG GIRVPMENML/RVFRAVEEHCP WFPEKGTLSVEQWDSVGAKFQ ELVPTGNYVPITVWGDWALLL QFSESGDPLPLPQLSSPTGPSLS DQPLPSPTPPPPDDVENSISNSG DFGLTLPPGDLILFPEEPLLAAS AAPNRTALGHIYANSSLFKPLQ HLPLESANGSGAKLQFTYNSAG PSPSSAAPRPVVSVPQVTLPS TQAASLYPSSHMDTSNHQCTSA SSAPPMPLSHTLIPSDETTTCNVF NYPLKKPTGRELREAKNKG SQP KVHEKTNPGNIRCISTEERPHEN KGFNHLLEWLAEKTTIHLDC WFIKDVNREQPDGRDAGDKR LCVKFLREIAANTYKTEVGA AK VMEILLHSHGATTIAN
24021	54389	A	24159	365	675	
24022	54390	A	24160	1	1191	

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24023	54391	A	24161	363	1434	QQGVCSGEKGGHWAPRQVG VYLLPGRVGCVSSRVSPSPG DGLDSSLARRGS AVSALASGL VEE PMLGPPFHPTPRFKAVSA KSKE DLVSQGFTEFTIEDFHNT FMDLI EQVEKQTSVADMLASFND QST SDYLVVYLRLLTSGVYLQ RESQ VLRALHRRVDGTVQRSSA KQE VEPMKESDHHSHHCAGPG PS ACPSRVGVHGTAAARAAPP IRTS F/H*GVSPKVVLLYRPGH YDI LYKLGSSPLGCPGCPLLA RA LGHCYRGFSVVVNGPISPP SSCH MTPPPCFIKGGAGGEP CVRVPA LLPAWLLCLPPPPR WVPLFT YLLSFPNRSRFEGP GLEAPPA SLGSASFPS
24024	54392	A	24162	2	888	VFRSRHQGCKLMAAEEPQQQ N QYPLGSDSEGVNCLAYDEA IM AQQDRIQQEIAVQNPLVSE RLE LSVLYKEYAEDDNIYQQK IQD LHKKYFVHPQDQGLTGTC FYS GFRDSPTWEGTCWIDSKEL QRF QGLVS/SQRSKGKTLVSQGL SL EFHNFEGFSTTTFI/VDLIE QVEK ADLCRRPCLASFNDQSTSD YL VVYLRLLT/SRAYLQRESKFF EH FNEGGRTVKE\FCQQE\VEP MW QGEATTSTSLALAQALS VSIQV EYMDRGEGGTTNPHIF EGSEP KVVLLYRPGHYDILYK
24025	54393	A	24163	3	819	EGATMAAPPQPVTHLIFDMDG LLLDTERLYSVVFQD\CHRYD KKYSWDVKSLVMGKKALEAA QHIDVLQLPMSKEELVEESQTK LKEVFPTAALMPGAEKLIHLR KHGIPFALATSSGSASFDMKTS RHKEFFSLFSHIVLGDDPEVQH GKPDPDFLACAKRFSPPPAME KCLVFEDAPNGVEAALAAGMQ VVMVPDGNLSRDLTTKATLV L NSLQDFQPELFGLP SYELEGRA SVFRPQPTLMVHT AGGKGKEIS NSSIPTCAVILAS
24026	54394	B	24164	115	594	
24027	54395	A	24165	4	160	SIIFPAIPVSLK*IKPNCPEPP PDH LLQAAWGCVSLGQGLS YSALN TLLYFT

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24028	54396	A	24166	88	2280	VPLYDRMGGETGLLIPSPFRSL HAATDAHSCKNRHS LTGKTDS LWQQDTKLQTRPKATQKGES GGCGPHRPLLLLRTKSTPESKS AHDPPVAPAQAGASGCGRGAA QKGF GAKAAVDGQGRDRTPG VPAAGPPTSSGRGDRGPSSRR TRSQTPEPTGRPGSRQFQAAPP PSHHSRPAHAPFGFQMYRGPL YSSSPAPATPNTSAYESPRFCST SYISSSPRFCPTSYICSSPRFCSTS YICSSPRFCSTSY
24029	54397	A	24167	2	352	WRTLIVLGMSCLSYYPK*MHLT HLIHCS*EARS LVTLHIPLTICG EPRNIKL VGCP*IQWKK**KKI MNSRILSPSFRSRY*TSNLLGLP *LRGLSPVERELKLWTRNHKLL
24030	54398	A	24168	2	252	NKSSVFATSCSLDPISIMSLM*W TSVISCRSKK*SRSLRIRL*HKA KELIYPLPVRESMWGYCQLLS MSMPIMHAGTGEMTTG
24031	54399	A	24169	1505	1680	RTSSLVTL*TLHLEPAGT*VLTP GSTTGITVSGTVLFLILLSCFLSS TPFRLKLACLS
24032	54400	A	24170	681	932	
24033	54401	A	24171	1740	1950	HHHHLLQMSWSAGMQAWHW PSFYNVVTGKTLA/LPNLIALQH IPLSPAGVIAKRPAIALPNSCA ALLSSQ
24034	54402	A	24172	1	652	GKLTEARTRCCMQLTSDRHRH TALNHTTCSHHCNSGVMAGR LPITVLSGDIGPKGMRALTMW HTLARPTGDLEAPRHGRPRRIT ATQPDHAPPATSRNRAAHPHN HTP/PHPQTAH/PTATHSHLT TPRPTPATRTP/HPHSHQQYPY Q/PTQRSPYLHPPPAPPHISLHPS TTRATVNAPDTRPTIYARESVF GRLLNLGRQRMELANILQVH GP
24035	54403	A	24173	267	400	RFLHCGNLAGLLVGFLSFKLGE YEGLGPLAALTAGKGLFPLPLE SRLRLHRRPKPRSPASFG*VSRH THAIHFN
24036	54404	A	24174	422	452	
24037	54405	B	24175	131	1047	
24038	54406	A	24176	2	199	LGLR/CARLEARARPPWATVRE KLWLF GHPTHMRCSWRGLFQD DLGLQKPLSGGSSSAYRGCENL NS

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24039	54407	A	24177	440	1746	RNLQCVFQGRKEGIPVLALS/L RPSP/RVLHTATKQKNSCQHLE EDVD\QTKWRTDTPSMDKILME EVKLEEQLKEAVEEDKQALAD TEGSEQSSQKLVEEGNMYSIQG FCKDSLEVADVLEKATQCVPEE EIKDNNPHLKNLCETLTMSEEL SQMVDCCRLPQDVSVLGVALH WVTPQMLCVPVNEDIPEVSDT VLKAITAPPRVPIGRTSGDVTGT GVRRRRVSSAMSQHRAFRDVT VTVQCLELGCFLLRVELASQFL KRPRSPESNEKVPEIEVTVEASA KMSHPTLYDATRSPWGMFQSQ SVLLSCAHHSLLRGATLDRCGS IDEESEWYGMDTFECTGVGVSI RRATEPERSSGSAAALDSHRSM HPIVNHACEGSTLRCPYENLMP DALSLSPILSSRSGDASPQAEILP VVGPFMRMRCLTVDPPGLDVT
24040	54408	A	24178	391	656	

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24041	54409	A	24179	1	2150	MEDSTSPKQEKENQEELGETRR PWEGKTAASPOYSEPESEPLE AKQGPETGRQSRSSRPWSPQSR AKTPLGGPAGPETSSPAPVSPRE PSSSPSPLAPARQDLAAPPQSDR TTSVIPEAGTPYPDPLEQSSDKR ESTPHHTSQSEGNTFQQSQQPK PHLCGRRDVSYNNAKQKELRF DVFQEEDSNSDYDLQQPAPGGS EVAPSMLEITIQNAKAYLLKTSS NSGFNLYDHLSNMLTKILNERP ENAVDIFENISQDVKMAHFSKK FDALQENENLLPTYEIAEKQKA LFLQGHLEGVDQELEDEIAENA LPNVMESAFYFEQAGVGLGTD ETRYIFLALKQLTDTHPIQRCRF WGKILGLEMNYIVAEVEFREGE DEEEVEEEDVAEERDNGESEAH EDEEDELPKSFYKAPQAIPKEES RTGANKYVYFVCNEPGRPWVK LPPVIPAQIVIARKIKKFFTGRLD APIISYPPFPGNESNYLRAQIARI SAGTHVSPLGFYQFEEEEEEEE EEAEGGRNSFEENPDFEGIQVID LVESLSNWWHHVQHILSQGRC NWFNSIQKNEEEEEEEDEEKDD SDYIEQEVGLPLLTPISEDLEIQN IPPWTTRLSSNLIPQYAI AVLQS NLWPGAYAFSNGKKFENFYIG WGHKYSPDNYTPPVPPPVYHE YPSVPEMAEMDDPSVEEQAF RAAQEAVLLAAENESEDEDE
24042	54410	B	24180	1	489	
24043	54411	A	24181	39	423	RSPTPDAASRSQCSSRRRRGV KEVFMVSMARTKADWPANRTG G*STPRKPTGPTKSPLRKSAP/A PTGGGERNPHRLQGLVTVAAP* NLDGYQKVHNSFLIRKLSLPSV WVREIASGLLKQNLRFQERQ
24044	54412	A	24182	3	384	
24045	54413	A	24183	1	434	MLQNVTPARAEWQRKTALQG VEDPVPARPPPISSPEDLLRSGEC STAPTQRQVPQPVHE/SHRPTQ DSPGARRKPTSERGHTEQRAAP DREARPATRGWGLRPGGQWLG GSEHAAAAPGPSDHPRGRCRH HTILQRPRLLSGKTES

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24046	54414	A	24184	15	286	LPSRGAWLGTCSPPCLSLPPPP WAPVRPEPPR*APPPAPRRPVPS TTQGS LGPHCFYEL *HSPRRSA ASLLKPARPRAHQEERTTPDAP P*EL *HSP *RSAASLLKPARPRA HQEERTTPDAPP
24047	54415	A	24185	2	214	CLSLPPPPWDPVRPEPPQ*VPSP APQHPVPSTTQGLRSVGARRGT GRQLHLQSRCGIHWVKPAGLL SLGL
24048	54416	A	24186	308	311	LPSHGAGLGTCSPPCLSLPAAP WAP/RVARASPTSAAPTQHPV PSTTQGPLGSPSTLRKL*SFALC NKSCCCLFGSTLPL*AVTLTA KVCSFTPKA\ARP
24049	54417	A	24187	1	669	MMNEGSGISLSGCDLGTALQLL SQAIVECLKLFQMLNRSTILGSG GQQPSSHSTKLRPDSGAQLAS PSGSGTGAAGGAACQSRTVCSH SSALGWSMGLGAVEQGVVLV GEAQAAQEPMEGVGGSGMAG CRSRALPHGKAAKARRAIEHST GGLALLGDPVHSPQPLARVLSP SLPRASRAGW/PAPSAGPPSPHP PGTPAGPQAPHAAPVPARASPS TPPCKL
24050	54418	A	24188	157	395	RCSSCQREMPY GK*NVQKRL KTTKNGSM*LKSHILSTPEQ\PA SPTSS/PPLLQPAAPAPPLMPRPS PPPGISVA*YPGM
24051	54419	A	24189	2	287	CLSLPPPPWAPVRPKPPR*ATPP APRRPVSTTQGLRSAGARRGT GRQLHLQPLCGIHWVKPAGLLS LVGTWRTFMSSSGIVNTPISTLC LAQGL
24052	54420	A	24190	500	724	
24053	54421	B	24191	1	2154	
24054	54422	A	24192	688	1215	SRLAPALLSPWVVDGTGRCGA VGGAHWGGLGRTGAHGGGGR LRHGGLRVSPAPREGS*GPPR YRAQRWWAGT/DWRTQYTLRS CWPGTLPSK*REMPY GK*NV QKRLKTTKNGSM*LKSHILSTP EQ\PASPTSS/PPLLQPAAPAPPL MPRPSPPPGISVA*YPGMPWTC PFYWQ

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24055	54423	A	24193	308	1131	VLQLRRRTWSCSLRAWSWDL IVPPGGLVVSLASGVKLQTFV SVTALKEARLDLFVPPGGLVVS LASGVKLQTFVSVTAHKSSV DPKNSGAQLASPSGSRGTETAGG AACQSRAVRSHSSALGWSMGL GAIEQGAALVRGGSGRTG\PM WVGSGMAGCRSRALPRGKA AKAQREIEHSAGGPALLGDSVH PPQPLARVLSPLPGASRACWL LRVRGPPSPRPPGTPAGPQAPH AAPVPARASPSTPPLVHLTNDV LRVKVKWAFFFTLHK
24056	54424	A	24194	192	818	SWCLSRAVVGDSMTSEVIED\E KQF\YSKA\KTYWKQIPTVD HAWGEGPNKTGTSCALDCGAG IGRITKRLLLPLFREVDMDITE DFLVQAKTYLGEEGRVRNYF CCGLQDFTP\EPDSYDVIW\QW VIGHLT\DQHLA/ESFLRPCKGQ ASAPNGHIVIK\DNIA\QEGVILD D\VDSSVCRDLDVVRRH\CSAG LSLLAEERQENLPD
24057	54425	A	24195	1	233	FFFFETESRCVARLECSGAISAH CNLCPLGASNSPASASQ/CSWD YRCVPSRLANFLYFSTDGISPC WPRMVSNNLTS
24058	54426	A	24196	240	476	LLPQYRRVLLIYSGIQLLPGLGL RRRMCPGIYSFLLDFLVYLRG VYSIL*W*FVFFVLVPWFSA PS GHLRSSLCLF
24059	54427	A	24197	288	677	NLPEDVVPDDKPHQPLLRAV\C LFVISKDLFLESPFESPIWRMYP NSTVHIQRLELALLC/CHCPRAL PASAHSCHSLERGLPICKE**CM PCSEYTIASQRPAGGAPAILPEC DSRRRTTQATSEPGSHI
24060	54428	A	24198	99	399	LLCHGFEHPPLAQRSLLLPIV*S LLLSTRQSHSPSSFVPLLARSCG SWVSPAEEAEPQILQKGKCSCL IVPLEALCQRGTRLSLWPLTFF PSFQLWPV
24061	54429	A	24199	1	586	LSFFKVFSFFAIGSNILFSSEKFI TDHLKPSSPTCQSHSLSSFVPLL ARVAFRWGFVDVLSFVSFPSN SQDPQLQVCVCWRSTPDRLP GYHQRGSGGCRTADIEPQMLR LIVRLEVLSQRSTRPQRCQSA\L LGGASQLGCC/GVRDLLEEAVC PFSDL/KLHAGKTTTLFKA VRQ/ SHLSLQRLLSFVCLCPT

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24062	54430	A	24200	1	822	
24063	54431	A	24201	1428	1801	RSAGIDPE*FFSG/PRRIHTASCL PSQRSSNRACSSSVTRIVSILSRF IGIITPMNRNPRFWRNSTSWTR MNRQTSVNRFTTTLMSFTAAA SRVSVMTVKTSDDTCSSRRRSQ VKYHLSISTQVL
24064	54432	B	24202	1	2040	
24065	54433	A	24203	176	564	AWEPKWYSTTATRTHFWEMRS RSIMSTTKAFSTSNSASDSLEEP SSRKTRSSSLQ*KSCNGGSEM SSTYRVVGLTGASLSASALNSLI DSRSNR*/VFSRNTLANITRRNQ LKMLPAPDPDGFSSGSPFQ
24066	54434	A	24204	1	774	
24067	54435	A	24205	1	1807	MPLRAFNPVSSFRWARGMTIV AALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVF GILHALAQAFVTGPATKRFGEK QAIAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPAL QAMLSRQPNFDHWTADRHGD LCRLGEHMERVGMDCRRRPIPC LPPRVASRCMEPGHLDLNGSRR HLANGFTTPRIGANQFLRRTVN AQTNPWQNISIASAISSSRTRIS GSVGSWPRSGNAEVSALHHYV PDLHRRMLLATLWNTYICINEA LALTLSDFLVPPHPYRQLFTLT TFHNRACSSSVTRIVSILSRFIGII TPMNRNPPYTEASVTKQEKAL NMARFIRSQTLTLLEKLNELDA DEQADICESLHDHADELYRSCL ARFGDDGNSYDHDYAKLACLQ VEGRGGGTFAHELLAVEYAGW ISPAFRLKVMHWMNRMMLDAR NRDRYKQWKQDFFHDSYNRQS AGHILSQCANLAATTSEYFIHKP HRLIAAETGYSQSTVVRAFREA VNGILSVEIVIGDHRERRADL YRFTPSFLVFAQQAKNALIESKS KISSAATKVRLAPISPTSPMG KIGLATSGS
24068	54436	A	24206	291	851	
24069	54437	A	24207	2	694	
24070	54438	A	24208	2	331	HLSTIEPEDYNLLFRRVSLKLSV WLPTWQSKSNGWSKKCLWMH LKSNNPLNALLPPAGF*SATMPK CSAWAKTISSPGCVITEF*SQPV NAGTSPNKNTYLVGISPLKKP
24071	54439	A	24209	1	4455	

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24072	54440	A	24210	698	1088	LTSKFIAAVCMRRISLCGKGS QNTDSGIAATPCSCVSD*QNSTS SRIRM*PWMCPMPKRKSAT*N ITLRC*RAAPPISSVRK*/MSM Y/NHLQSAECGGHRFPVPQEE SILLLLHLIANRSSACHSIR
24073	54441	A	24211	1	1902	
24074	54442	A	24212	1	2898	
24075	54443	A	24213	1	2604	
24076	54444	B	24214	1	1254	
24077	54445	A	24215	1	2946	
24078	54446	A	24216	698	1285	RFWRNSTSWTRMNRQTSVNR TTTLMSTAAASRVSVMTETA MTMITPSLHACRSKAVAAALLP MNCSLWSTQAG/CSP/DVSAEG KPDYRLSNRKITTCYSAES/LL KLSVWLPTWQSKSNGWSKKCL WMHLKSNLNLALLPPAGF*SAT MPKCSAWAKTISSPGCVITEF*S QPVNAGTSPNKNTYLVGISPLK KP
24079	54447	A	24217	1	1986	
24080	54448	A	24218	1	2262	
24081	54449	B	24219	1	1014	
24082	54450	A	24220	1	1155	
24083	54451	A	24221	5	386	
24084	54452	A	24222	1922	2146	SSSAGISCWSSSPTPGSIPSRVGS AAA*GWTTSRSTGSANPSASR KPAAAIRASMPPNCRSGEARWP LWSGSL
24085	54453	A	24223	1091	1435	
24086	54454	A	24224	1	2919	
24087	54455	A	24225	1324	1502	
24088	54456	A	24226	1	2901	
24089	54457	A	24227	5	253	
24090	54458	A	24228	1227	3031	

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24091	54459	A	24229	1	1940	MNRQTSVNRFTTTLMSFTAAA SRVSVMTVKTSDDTCSSRRRSQ VCKRMPGADKPVEGRGGGTFA HELLAVEYAGWISPAFRLKVN QTFIDYRTGRLQPAIPQSLPEAL RLAADLAEQKQRLEQKMLMD APKVEFAERVATASGV LIGNYA KVLGLGQNYLFTWLRDNGILIA TGERRNVPKQEYISRGYFTLKE TVIDTSNGSRISFTTRITGKDVV RTTSIVMLAKVTFLSCITMSDFT FSGYELACFVTHSGLSRSAGHIL SQCANLAATTSEYFIHKPHRLIA AETGYSQSTVVRAFREAVNKG LSVEIVIGDHRERRANLYRFTPS FLAFAQQAKNALIESKLIKISSA ATKVKAVLAKTLALFNFLSTPP CQNDTPSPCQDDVAIKNKKSQ VKKTKRSVSGGAGTTSKKLTS WIAKAKAKADNLRSLSKKRTQK HEFKQKVEAAARKYAYLKNKR SPDIGGISNFDNLPHCMTVNEA LNAVLAKNKDNEQWGAVAGA YIADITDGEDRARHFGLMSACF GVGMVAGPVAGGLLGAISLHA PFLAAAVLNLNLLGCFMLQ ESHKGERRGELLKIVVLPGDHV GQEITAEAIKVLKAISDVRSNV KDFDENHLIGGAIDLQGGGGK PRCVSKSLMLHCTR
24092	54460	A	24230	1	1230	
24093	54461	A	24231	1	799	MKPRTYTVSVTAVKDGVSVC SFRCSVSRVSSFQWVRGLADF RSEADLHNSGAQLASPIGSR GATSGAPCQSRTHAPALLSLW AVDGTGRHGAGGSTRRQSGG TQPEMVAGKAQAWRAAGFSG SGDGVGVSVLPWGGTCIGSFR QANSWISGGAFSDAGCDSRL GKDWSLEGSEERKMWESLE LPRDLKSSDRKMWESLELPRD LLNGFDQNAD\TICTMKSRLRW SQMEMKNLLGTGVNVTLMVLM* QRDWRHLLLV
24094	54462	A	24232	416	775	
24095	54463	A	24233	548	882	PGGHQYPPCHLEEKETDLPLLY TAVEEKGLSYSHPGSLVEKPLT STNSSGTPIQSNITSL*IPLAGIMS MAASQN*AI*WPLAPTMQSFTC TT*RLS*SHRRSWWHRGCT
24096	54464	A	24234	144	570	

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24097	54465	A	24235	254	1117	LSRMKLRLTLVSVTVLKD VVS GVCSFRYSDVSGVSSFQWVRG LADFRSEAADLRGLKLQTFVVS VTPHKGSVDPKSDQQRDLLQR VKEQNFRNVKGDPAALAHEDD VNGTESGAPRKHGDRELDVV ITNPHEAILENKDWIEDASGLM SHCIAILKICHTLTEKLVAMTM GSGAKMK TSAIVSDMIVVAKW NSPRVDDVVKSMYPPLDPKLL DTGTTTLLSV\SHLVLVTRNA CHL\TG\GLDW\DQSL\AAEEH LEVLREAAL\ASEPDKGLPGPEG FLQEQSAI
24098	54466	A	24236	472	844	RTDGVLVWMSFLFVSFSPNSQD PQLQVCWSLLEVHSRCLPGYQ QWRLCPHEITGESMSKLHIIQK YTSSCCLFKSS\SERGSSTPCPSW LGSGEGLSTLHATDFSFSAPMA QRGKSSLVSLE
24099	54467	A	24237	206	456	
24100	54468	A	24238	50	392	LGLLPFFHRCPTQRGGI*RGSLA TAALLSCGGLCPVGS\SRHLCL\ PVRGKRPTQASVMGDALPPTK LECPRSASGCCAGSDNFKPVDL SLLSSMGLGSTELDHLAPWLQP PFQG
24101	54469	A	24239	1	204	SFSVQFCSLVGDPLG*SSCDPLE EKRCSGFWNIQPFCAFSPSLW DYLSLVFDVDDLQMRSLSGCPF
24102	54470	A	24240	1	375	MCNAQVLEYMGKSSSLLTSDL QLVRDALRSLRNSFSGHDPQHH TIDSLEQGISSLMERLHVMETQ KKQERKPPLVIPRQT/WVWSGP PANSNRPA AEGPDC*KEN*RDA LRSLRNSFSGHDPQHHTIDSLEQ GISSLMERLHVMETQKKQERKP PLVIPRQTGSGVDLQQTPTDLQ LRDLTVRRKTNEQKGIASTK RTSTPKPHL
24103	54471	A	24241	1	674	MVVYACSPSYLEAEVGGSLSLE VEATNPKNSSKKFLDLISEFCK VSGYKISVHKSVALLYTKNDQ AATQIKNLIPFTTAAKQFKYFGI YLTKEERLKPSRKKITKKHTK KRTASLILHAMICSQIPKQQQNE KYQVPQFDQSTIKNIESAKGLD VWDSWPLQNADGTPPLVIPRQ T/WVWSGPPANSNRPA AEGPDC QKEN*QTERNSINIKKKDIHTKT PLCI

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24104	54472	A	24242	1676	1768	
24105	54473	A	24243	270	471	PSREYQDANPWLKWIKYSVRT LNKSDCYASGYK*ACLLCSVYS HGKAAGECTLSAGSKNGLAEEV KK
24106	54474	A	24244	23	200	AQMKAHGRSRSS*RCDEEHWR ACRAQEPPCSQSQRERSKRTCR QGTVASKVKCHSEAR
24107	54475	A	24245	3	270	ASTSHVPQPICGLDDLAIHSAV RLNRERVHSTAVLP*EYTKQRR QGHL*PDPYKKEGAATNEDAL LLRWERGRGARLHIPGCKAPQL
24108	54476	A	24246	135	275	
24109	54477	A	24247	365	583	
24110	54478	A	24248	2906	3114	
24111	54479	A	24249	108	405	NLHTPYRPQSLGQGEPLDDYV NTQGAS/LFSVTKKELGAGSIEE CAAKCEEDKEFTCRYFHCRCTF LSIPQVTSSFLCFPLPLLLKSSK LLANRDKYRM
24112	54480	A	24250	1	386	
24113	54481	A	24251	1	808	MSYSQCVSDPKAHGILPGYHC WLFRDQGLLKSQHVINPAKAST GFFLQDTLMVLEIKTTIRNYYK HLYAHELERLEEMDKFLDTYT LRLSQEVIDSPNRPIMSSKIESV KGYTHQQFCHKSTLNKGDRVI DNLTCPPYCCVWFPLAGTGPHI LYLSRLVSNLELFKRGKGRGEQ RKEEVTGMLRKS LVTSDLPEP GGVTSEGCETAKVTACSSLWE LCHREVLTYPYCPKDTCKRWLE TPVRRSCPVRRSRISTCLRKKFG HILAEQLSCA*RCL**FL/YGCFY FQDHECVLKEESSTSFGRINHV LTLKEPLVPE
24114	54482	A	24252	833	1245	ANMFPAFAAVAAGAATEAAA AAAAAPAPLAPARRAAAAAARG PPLPRLP/WSCAEVMYHPQPYG ASQYLPNPMAATTCTAYY/RA GAPTWPAGESPDGQPAGGGGE GHREYRSGARRRPAGTRGAED ALGSAGASLSRKP

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24115	54483	A	24253	145	766	TGCIREKFHLPEGSLIVSSRKH LQRLAFQAKVSSMMLPLQGAQ MLQMLEKSLR\KSLPRNPLKVY GT\VFHINHG\NPFNLKAVV\DK W\PDFN\TVVV\CPQ\EQDMDRW TLDHYTIT\YQIYSKDPQNCQEF LGSPELINWKQHLQIQSSQPSLN EAIQNLA AIKSFVKVQTQRILY MGRLETA\ELTPFLAGNQRILS P\SGWAKPKAM
24116	54484	A	24254	215	550	VGFRSCLVMSGRGKGGKGLGK GGAKRHRKVLRDNIQGITKPAI RRLARRGGVKRISGLIYEETRG VLKVLENVIRDAVT\YTEHAK RKTVTAMDVVYAL\KRQGRTL
24117	54485	A	24255	3	292	TLLNLAAAHCSGPCLLWFQLSF RSPSTSAVGRCCRPSADFHPSPRS SRVSAVLLIQ/QRCPLPILQLKA CHCSCTAKWLGSSPKPETFFEII HPSPS
24118	54486	A	24256	1	789	
24119	54487	A	24257	3	256	TLLNLATALSSGPCLLRLELSFH SPSTTAVCCRHRPAADFPPFGR VSSLLLIQ/QRCPLPLLIGLKACQ CSCAAKCCVRPNRAEQ
24120	54488	A	24258	3	212	
24121	54489	A	24259	2	491	
24122	54490	A	24260	20	272	
24123	54491	A	24261	160	876	
24124	54492	A	24262	623	796	GANSWNLTGTLAVKAGTVENP I*VFATHVESAGPR*LDPRTGSL AVRTKGRHWDQGA
24125	54493	A	24263	242	659	TSNSPPQTRPHVCHGPRQYLLQ LSSRDLEFLVQIAVRSCLCPLGR IRSPVFAVASTSTFGTLRGKVV KDFGFVFPWPWGQPCLCVPEER ALSCQGPVVD SRCPRCGHEGM AYHTQQMRSADGQTVFYTC TNCKFQEK
24126	54494	A	24264	66	238	
24127	54495	A	24265	2	278	
24128	54496	A	24266	168	565	TENFRALSTGEKGFYKSSCFH RIIPGFMCGGDFIRHNGTGGK SIYGEKFDDENFILKHTGPGML SMANAGPNTNGSQFLICTAKTE WLDGKL VVFGKVNGMNIVEA MECFVSRNGKTGQKITIA\DCG
24129	54497	B	24267	20	88	
24130	54498	C	24268	183	254	

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24131	54499	A	24269	412	590	KSGLATQG/GRRRGWVFLAPQ KGEGVETQREGVGV LAPSPE KRDLPLRVKDQGRRPCVV
24132	54500	A	24270	550	852	
24133	54501	A	24271	207	381	
24134	54502	A	24272	412	589	KSGLATQG/GRRRGWVFLAPQ KGEGVETQREGVGV LAPSPE KRDLPLRVKDQGRRPCVV
24135	54503	A	24273	191	235	
24136	54504	A	24274	95	375	AEKIWEGVSQRALGQSSRGSGS GCQMNPLSGRPQVVCFFTAHM LTKKREGASMLNMPCFQ*KE EMIQANLGPIADSSHCLGIEGPP WAPLTP
24137	54505	A	24275	144	293	WQVPLFWQPFPEPELWPKAL* LTPSQIFSD*RLKTDAAARSPRKP PAPR
24138	54506	C	24276	1	909	
24139	54507	A	24277	1	1744	MGCLGTQRAPRAFLLLPLPLHF AQLSNLTQLQAAASLSMVTHR SSGGGGERGATAAGTEQGGAC LAASLLRGLWDAGEVTPIRVRV RPYDPFTLAPLHEHSEAQCVAS PSLTVTKEKSLLPKSLLAGSREV ARSRALCHGQARPPRPQVTQQ RTQLQGQRILQWRPATEGPHSP RRGSDSAKGTHPPTTGTCPPRR RQGAGYSRYNSGESRRRLGRQ QDLVARSDERDPAPATRRED KMIEELQPFGEHRPRRSPSQGC DTLFQALWFLASPSFORGGQLQ VLALCKAAAGPGAPQAASTAG TREHGYAWKLGDRNHRALK RKSQTWLRRFPAGCPDVCSAL ADLRAFMGLRGEEVCADWSM GGHGSGECCRGTGGQRAVVPK SPVQEKGKEPLSLLQYFMVDEK ERFLRITSEHEDNDNSNNSNHS SINETKETCFIHEPKTPAPVTDW EGSLPLVFNHCRDASLIHSCFK GVRPHRDACLG/RFTLSGK/FPL SWGRGKYPSTSPSPLAASPTFL GQGQELVTSARNLTTRPRNAC GPGFLLSHVPSVRDPTGNRTVQ LTWQPLPEPELWPKAL
24140	54508	A	24278	2	120	QSSAAKPRTSGKGSVREPWAR VPGALGVAAR*AEQSDFQ

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24141	54509	A	24279	1135	1483	ILTMTGSLSCTPSNAVIEKV*VC CSSLSTG*SKV/QVASNTSLCDG ED*GVVIQKKVKLVVFCIFYVL VQSYYS*R*SQIETVRNGCSHW GRFQDIALITGHCKIWTIVFIQ YFNV
24142	54510	A	24280	1	860	ATTGGTNLRDDIMRLDDTVHV VIATPGRILDLIKKGVAKVDHV QMIVLDEADKLLSQDFVQIMED IILTLPKNRQILLYSATFPLSVQK FMNSHLQKPYEINLMEELTLKG VTQYYAYVTERQKVHCLNTLF SRLQINQSIIFCNSQRVELLAK KISQLGYSCFYIHAKMRQEHRN RVFHDFRNGLCRNLVCTDLFTR GIDIQAVNVVINFDPKLAETYL HRIGRSGRFGHLGLAINLITYDD RFNLKSIEAQL*TEIKPIPSNIDK SLYVAEYHSEPVEDEKP
24143	54511	A	24281	848	1218	PMQRKSMLKISVS/PVSQKFM NSHLQKPYEINLMEELTLKGVT QYYACITELQKLAETYLHRIGR SGRFGHPGLAINLITYDDHFNL KSIEEQLGTEIKPIPSNIDKSLCG AEYHSEPVEDEKP
24144	54512	A	24282	241	477	
24145	54513	A	24283	38	208	MTAGAPPPPPFETPEGV*GNP TCSGG*EDASGSTRSQRHPVGL PVSCALRACHLK
24146	54514	A	24284	794	1455	AQQGGTSKKRRFPQDGQQRAG LACSRPPGPGGCGFQAPAGERY PNIKPHPTSVAPLVLCICYLM/P MLPWAWSYWRGARRPSRHPG AFPCSVAHQCPSAARSPTLRQE DPEKGSQASSFTGPSPQSMVD RCLKGPQLDVSRLQSLPQTGL RPVLVNQLSKKPTGYPTQIQW VLMRDTGKDTDTTEEKEGHAK MEAEIGVMYPQEHLEPPESGRA KGEIPL
24147	54515	A	24285	90	354	QSPGVHQLSRFVS*SYSERP*SL LVSTRYHTRALH**HYADSIQ* ARSSKHTGLIGCTVP*RGFPRTH SFYSRKREPRRQTSSFRGIL
24148	54516	A	24286	236	520	TACFLTHVAIKWVMHSSIPSSN GGGIYMIGLKAQVSYMRKWLK SPWSPLLLSPSLHRWPHGKFPM IS*QRKRRLGPGSQMVLHDMQ APPKSGQL

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24149	54517	A	24287	16	278	FAQAMKPHLVQQLQLESPLG* AYDNPLSFSKIHLSDLHKPVL*L GDSNDVLGTLESMSAQSQC VPMSDHLPPFMHSYPGKRPEV
24150	54518	A	24288	74	168	LGKCLFLHSCP*APPEAICLQLP LLSSPNP
24151	54519	C	24289	92	564	
24152	54520	A	24290	1	876	
24153	54521	A	24291	71	282	PLVTQVVFRLFPTNSSDLLQ/S PSP/GSGPHSNWQPFGLDKWA GVKHPNEECAASKIQTGPCCVV PLPWL
24154	54522	A	24292	81	1054	PRLFSDCFPTAAWTCRAFSC SGPHSNWQPFGLDKWAGVKH PNEECAASKIQTGPCCVVPLPW L*EENAAIYSPVSPVCFLLLA HWIQA*CHQCNQPVWYLVEV KSNQVLSK*HYDTKPES*YTPY GQEWKRGHLPSQWPHTRYQE MY*FAQAMKPHLV*QLQLQSP LG*AYNNPLSFSKIHLPSPHGS SEPCL*GPRTLVL*L*L*KQTGM LAVAPEENQHLYLAWQLPQGRP SLLPQAVQGLSPQTKVERLMA ASVGEGLPILGMEKLF/PSGK KD*SGFTSSVSPASSGSSHTSPF QVAGSHSFPINAFTLTVDTW
24155	54523	A	24293	5	88	
24156	54524	A	24294	779	1041	PPLSSPSGP/DEQSD/LWWQQSIP LHQETVKVLH*MGPVPCATQL DKIHQQGFSDPYRGAVLLASG WCPKRPEIPEGATTHLCCFPAS
24157	54525	A	24295	248	3714	
24158	54526	A	24296	4177	7804	TFQESRFEQGFQKAIFILELVDA EDPPDEEEEEASSIFSSSFHFLFP SSSSCFSSSSSSLLLRSPGDKD MPTAGMPSSLQSSSESPQSYPE GEDSQSPLQIPQSSPESDDTLYP LQSPQSRSEGEDSSDPLQRPPEG KDSQSPLQIPQSSPEGDDTQSPL QNSQSSPEGKDSLPLEISQSPPE GEDVQSPLQNPASSFFSSALLSI FQSSPESIQSPFEGFPQSVLQIPV SAASSSTLVISIFQSSPESTQSP
24159	54527	A	24297	145	219	

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24160	54528	A	24298	191	1075	QPKVSRHCQTSPGSYLYSLQSG RWTTGKPLQQTksvylrsfhh HHFQNRHYLHHHLYHHHH YHPHPSHHHLHCYSQH HHH HHHHHHHEHHLCRHQKSTQVE YSVFAERENDLGLNGTGDEAL HDNGTTERVSGPPAGYLYRAD YAIGLQPFMPRLGRRTPGAGGP HSRAPELAYLQKLITSPATLPFV YLETGGWSPRDAHRVDNFDM GPRENMGSVWEKSFLFTRNPSK SSYIADKNLIYLYASECIGRQSQ KARASKSGVQAEHPYITGAIKD DTRAIVKTRDLANRLK
24161	54529	A	24299	155	381	LICTSFKILSRFCPSSL*SSSSQG ACISKLLSVLTYAHLYFALEKE VLTFLSRAIVSSSTLLTHGVAHS LTLFH
24162	54530	A	24300	1052	1338	TGWDGPPANCSSPMEGDSNVH CSCVCCCSCFGLLL/CAIHCCCA PPGCSACGAATLLYSAPLGSSA YGIALLSPFHHVRMMLSTKQEV GLHQTLNLP
24163	54531	A	24301	1	723	MLNVQALVVMVMCFMWASL WAPGGHPSAGNISSWVSGLVSF PEWSSWELVVSVVGWAGKLW LHESLLTLNLSCGLLVVLVALV FDEWHPWSGHVAEACSTGYWS TGGIWFHEIAAP*DCSSSPAME QSWMEND\DELIEVGFRRLVIT NFSELKEDVRTHLKEAKNLEKR LDEWLTRINSIEKTLNDLMELK TMARELRDACTSFSSQFDQVEE RVSVIEDQMNMKREEKFREK RVKRNEQSLQEI
24164	54532	C	24302	295	430	

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24165	54533	A	24303	811	1947	QTERNSININRNGHQHQNPICRS PSSKTKGSIKPQRSGRNQSRKA ENSKNQSTSSPPKDCSSSLAMK QSWMENDFDELTGAGFRRLVI TDFSELKEDVQTHHKEAKNLE KKIRQM\VTRINSVEKSLKDLM ELKTMARELCDACTSFSSRFDQ VEERVSVIEDQMNMKRKEKF REKRVKRNEQSLQVIWDYVVKR P\NLRLIGIPESDEENGTKLENTL QDIIQENFPNIARQAN\VQIQEIQ RTPQRYSSRRATPRHIVRFTKV EMKEK\MLRAARQKGRVTHKG KPIRLTADLSAETVQARREWGP IFNILKGKNFQPRISYPAKLSFIS EGEIKYFTDKQMLKDFVTTRPA LQELLKEALNMERNNWWYQPLQ
24166	54534	A	24304	1	2394	
24167	54535	A	24305	1902	2413	
24168	54536	A	24306	2	610	WAPPAIHIRCMPEAYNFPRKPL SLIPSAIQSNELIIMNGNRALNIQ LLKRYQCTLDIRYKQTSMLNC YEGTVITPSHIQYPCLSDSYGLY DIGIRNTDFLKGELSMNIRPLHD RVIVKRKEVETKSAGGIVLTGS AAAKSTRGEVLAVGNRILEN GEVKPLDVKVGDIVFNDGY\G VKSEKIDYEEVLMSESILAIV
24169	54537	A	24307	1	801	
24170	54538	A	24308	1268	1579	TAIWSPSKSALYAAQTSGCSWI ALPSISTGSNAWIPRRRCRVGARF SSTGCSRITSSRISQTTASSRSTIF FAALMVVARPRSSSLP*MNGLN SSSAIFFGRPH
24171	54539	A	24309	583	796	IHICDIRFSATPAGGEFWQYIAS RQSIFHAIIVETGHALIQSSVPG LTPAMKAVATTSH*TVESCFRS ASR
24172	54540	A	24310	1	313	MPNVDVVGEMVNTMSASRSY QANVEVLNTEKAMSI\VTITDP TNTGVSTTSSSLTG\SNAADLQ SSFLTLLVAQLKNQDPTNPMEN NELTSQLAQISTTLRAY
24173	54541	A	24311	54	323	SASAQVSALSIHSAAFQNEYLSP CPN*RL\SAFTNSSRQSG*PEK SVSQTPVITASAF*YADIAASV RNKILRPGTNVFGDTIGFRVQ
24174	54542	A	24312	816	866	
24175	54543	B	24313	1	985	
24176	54544	A	24314	1828	2505	
24177	54545	A	24315	1	1938	

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24178	54546	A	24316	4201	4668	
24179	54547	A	24317	269	503	
24180	54548	B	24318	1	1702	
24181	54549	A	24319	829	1584	
24182	54550	A	24320	1238	1926	IQAAYNRIAPSSSPKFPRACGKP CLGERGRIRGPGPSFGLINRPST PDPTITGVSTT/SSSSLTGSNAAD VQS/SFLTLLVAQLKNQDPTNP/ MENNELTSQLAQISTVS/GIEKL NTTLGSGSI/DNSQSLQASNLI GHGVM/IPGTTVLAGTGSEEGA V/TTTTPGFVEWDGTL/TDGST APNGSYNVAIS/ASNGGTQLVA QPLQFALAAERFCALSPGAPYR YDTWVRQWVASP
24183	54551	A	24321	487	1509	FYLOGLRQQPQVRQPLNIGVTA QGVNAAACHPHIAEQQLDHRH RTNVLRTNGVLRPAEGIQERGS FIVSTGFCDVFADFQERVFWRT TDVFNHIWRVAGNVLFQQVPH AARMLQRGIAFGEAVFVQFISP GGFIVLAFFRVVAGEQAIFKAVI LTHDQAGGGIGFGVFAVEFFIV QQVQQYA*QESNVSTGTNRGIV VSYRRRTRKARIDHNQLRAVV NFGFHRPAEPDRVSAHHHDEV GVLDVDPVVGHRKTFDFIWH DQFIDQVRVRFSGDNRRLQDRE QVGLQSANNPIDKSLFRGINQF QLYAAFTAQDVNIDIFKTRQQF FAVIGQTTGVQYQK
24184	54552	A	24322	377	749	
24185	54553	A	24323	140	298	
24186	54554	A	24324	342	1094	MGAPWLHRPRRALQRWRLGS GFSCGSLGLQENNGGRPVMV LALSTLPRRPTRCGCFYCLIKP GFRLGMKSVKMEIRGLWAGGE DKIAVPAEPRSAGPERTLSDLH NESIF/ITGGGSLGLALVERF/IE EGAQVATLELSAAKV/ASLR/Q RFGEHILAVEGN/VTCTYADYQR AVDQILT/RSGK/LVNTPAETLE TGFHELFFNVNVLGYLLGAKAC APALIASEGSMIFTLNAAWYP/ GGGGPLYTASKHAATGR
24187	54555	A	24325	1	1785	
24188	54556	A	24326	2	1760	
24189	54557	A	24327	2437	2679	TFQYIGQPHGDEFPHVAPVKHG DKLGEGKNHHDKSRHLFHRFN H*MR*IRLTSNCAGSDAISQRD NKEKKNDQWHDTFNKG

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24190	54558	A	24328	3	415	
24191	54559	A	24329	1	1932	
24192	54560	A	24330	1932	2117	RAISLGRTAAGYLNSDVAQRA ASGADPAGDFVVWH**IRKNLS GGARYAIPHL YQHLAWHP
24193	54561	A	24331	1	1017	MRYREPPARGVEPNELHACRSE DKLSEDAFDDQCTGANPRYPLI SELKQILLDTYYGRDYVEDRLS FLLAVATLNGERLDGEMSEK LVMPFRHVSDAFEQTRETIGVR GNNAINDMVRQRLN\RFTSEQ AEGNAIYRLTPLGIGITDYIIRQ REFSTLRSLMQLSIVAGELKRA ADAAEEGGDEFHWHRNVYAPL KYSVAEIFDSIDL TQRLMDEQQ QQVKDDIAQLLNKDWRAAISS CELLLSETSGTLRELQDTLEAA GDKLQANLLRIQDATMTHDDL HFVDRLVFDLQSKLDRIISWGQ QSIDLWIGYDRHVHKFIRTGID MDKKPRPSRRCL
24194	54562	A	24332	5	220	GLSWLNYC*ASTLTISLRCATR AVPLTRIRCRPLLPSRRERTAL PCIYVKIAVTLLTATCASCVR WIPA
24195	54563	A	24333	3	180	
24196	54564	A	24334	229	564	PGFKPRHSSWQRLPSLGHLPLY GSSVFTLLNLATAHSSGPCLLQ LELSFHSPSTTAVCRRHRPTADF HPSESGRVSHVLLIQ/QRCPLLL WIRLKACHCSCTAKCPGSSQLS
24197	54565	A	24335	148	404	
24198	54566	A	24336	213	1306	SCEHSVAHGRGIMDLSLLKALS EADAIASSEQEVQRIL/LEEADR LQKEVRVDGLGSVLIRLNESG PKVMICAHMDEVGFMVRSISRE GAIDVLPVGNVRMAARQLQPV R'ITREECKIPGLLDGDRQGND VSAMRVDIGARSYDEVMQAGI RPGDRVTFDITTFQVLPQRVM GKAFDDRLGCYLLVTQLRELH DAELPAEVWL VASSSEEVGLR GGQTS\TRAVSPDVAIVLDTAC WAKNFDYGAANHRQINGPM LVLSDKSLIAPPKLTAWVETVA AEIGVPLQADMFSNGGTDGGA VHLTGTGVPTVVMGPATRHGH CAASIADCRDILHMQQLLSAFI HKSNELGGVLRRLRIQICRDGNE
24199	54567	B	24337	1	1075	

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24200	54568	A	24338	438	1462	QIVQCLDVPSYTFIWFVLDPIY GDSVSTGLVVAHSIIVNAITPIG LYLLNPSSGADGKKNSNLSALI SAAKEPVVWAPVLATILVLVG VKIPAAWDPTFNLIKANSOVA VFAAGLTLAAHKFEFSAEIAYN TFLKLILMPLALLLVGMACHLN SEHLQMI\TLASALPPAFSLKLIY CAA/ARLMCYTRTGTTSLAITLT ETVTQKLTGSRPRISSYGRNLM WPLAWYKDNGKPHLCSQLETT RIHSTAAQGRSSGSLRRGLGAS PFYRQHDQARSEQIPITRIPMG LAQRAPKGRAQPRGLTAPFTN GALGQPQGRGTSKQASQTRPR ASAWPHTPT
24201	54569	A	24339	30	177	GSGYQRCHNNAASDRLRSYRK QPAER/WLAPPIDSITSPASRA LILLY
24202	54570	A	24340	3350	3430	
24203	54571	A	24341	425	824	SISGSENACFNATNHSGRYSQY GACLTSSSCRKGQLARRGLSYQ SPHAPADPAFPAARRSPVFCLS DDGGHKSPRDMSPDKPSRHPD QVALTRRIPSPAVALPSVVKR TVHEGQGDDDESNPSPSPDVH
24204	54572	B	24342	1	2118	
24205	54573	A	24343	1	888	
24206	54574	A	24344	730	1101	
24207	54575	B	24345	1	1992	
24208	54576	A	24346	880	1103	TMMRRLISRQPVLPKCFSVLI SNPWRVFGGTGGGNQER/CRY AEESVAETRLCP*CRLYAEYDP GSGCAGLSL
24209	54577	A	24347	1	952	MITLRKLPLAVAVAAGVMSAQ AMAVDFHGYARSGIGWTGSGG EQQCFQTTGAQSKYRLGNECE TYAELKLGQEVWKEGDKSFYF DTNVAYSVAQQNDWEATDPAF REANVQGKNLIEWLPGSTIWA GKRFYQRHVDVHMIDFYWDIS GPGAGLENIDVFGKLSLAATR SSEAGSSSFASNHIYDYS/NEN AND/VFDVRLARWDSPPGPLTG FPPSALACTSGVSGQKGVPGPP EAQVTFATPKKPGKEACSSIQV LNRGYRPPTFSYNTGVRRSARD YYPRRQRSISTNSPSRRWKGL NSRRCSTGNRPLVGAVS

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24210	54578	A	24348	805	1274	ASFATTRPVTKLAMRVAIFDSV VGQRYWGSAA SPEHSRFAVLW ILASIFR/DRIASLRVQATVKS*K MS*AWYWQGC FRNWKSSPA*Y QFFSPARSASSHFAGEPVSLHSP IALGYRSESSSSCHTSTASLSVH RDY A HLHGLRFDHSSSRRLCY C
24211	54579	A	24349	275	490	
24212	54580	A	24350	1	696	
24213	54581	A	24351	1	735	MFTPDYRSVSRVLGSGPGYASR MNQPDVMPDIPGKRFYQRHDV HMIDFY YWDISGPGAGLENIDV GFGKLSLAATRSSEAGGSSSFA SNNIYDYTNETANDVFDVRLA QMEINPGGTLELGVDYGRANL RDNYRLGKGLSQGSGVAFDNE KFAYNINNNGHMLRILDHGAIS MGDNWDMMYVGMYQDIHWD NDHG\TK\WWT\AGIRP\MFKWT PIMNTGMKF/GYE/NVESQGP QNIRTIYLA KP*QPDVMPDIPGK RFYQRHDVHMIDFY YWDISGPG GAGLENIDVGFGKLSLAATR SS EAGGSSSFASNNIYDYTNETAN DVFDVRLAQMEINPGGTLELG VDYGRANLRDNYRLGKGLSQG SGVAFDNEKFAYNINNNGHML RILDHGAISMGDNWDMMYVG MYQDIHWDNDHGHQVGGPAG IRPDVQVDAHHEHRDEIRYEKL NPRARDKTFVQFTSQNPDR
24214	54582	A	24352	1	3414	MIVQPLAIGSHFDSIAAGNLAR PIAVYGRNEITAIFASLKTMMQ ALRGTVSDVRKGSQEMHIGIAE IVAGNNDLSSRTEQQAASLAQT AASMEQLTATVGQNADNARQ ASELAKNAATTAQAGGVQVST MTHTMQEIATSSQKIGDIISVID GIAFQTNILALNAAVEAARAGE QGRGFAVVAGEVRNLA SRSAQ AAKEIKGLIEESVNRVQQGSKL VNNAATMIDIVSSVTRVNDIM GEIASASEEQRGIE
24215	54583	A	24353	1	2493	